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OCCIDENTAL COLLEGE BULLETIN

Catalog Issue
1969-1970

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Correspondence concerning general interests of the College should be addressed to the President.

Inquiry concerning faculty appointments and academic matters should be addressed to the Dean of the Faculty.

Other inquiries should be addressed to the officers named below:

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Alumni Affairs	<i>Director of Alumni Relations</i>
Business Affairs	<i>Treasurer</i>
Public events and lectures	<i>Secretary of the College</i>
Scholarships, employment and student aid	<i>Director of Financial Aid to Students</i>
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OCCIDENTAL COLLEGE BULLETIN



1959-70 CATALOG ISSUE

Early and Modern Times

OCCIDENTAL COLLEGE, Los Angeles, California

1959-70 CATALOG ISSUE

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OCCIDENTAL COLLEGE BULLETIN



1969-70 CATALOG ISSUE

Eighty-second Academic Year

OCCIDENTAL COLLEGE, Los Angeles, California

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COLLEGE CALENDAR 1969-70

FALL TERM

September 21, Sunday, through September 24, Wednesday: Orientation

September 24, Wednesday: Registration

September 25, Thursday: Classes Begin

November 27, Thursday, through November 30, Sunday: Thanksgiving Recess

December 5, Friday: Classes End

December 5, Friday (afternoon) and December 6, Saturday: Comprehensive Examinations

December 9, Tuesday, through December 12, Friday: Final Examinations

WINTER TERM

January 5, Monday, 1:00 to 5:00 p.m.: Registration

January 6, Tuesday: Classes Begin

March 6, Friday (afternoon) and March 7, Saturday: Comprehensive Examinations

March 13, Friday: Classes End

March 17, Tuesday, through March 20, Friday: Final Examinations

SPRING TERM

March 30, Monday, 1:00 to 5:00 p.m.: Registration

March 31, Tuesday: Classes Begin

May 29, Friday (afternoon) and May 30, Saturday: Comprehensive Examinations

June 3, Wednesday: Classes End

June 5, Friday; June 6, Saturday; June 8, Monday; and June 9, Tuesday: Final Examinations

June 14, Sunday: Commencement

SUMMER TERM 1970

June 22, Monday: Registration

June 22, Monday: Classes Begin, 1:00 p.m.

July 24, Friday: End of First Five-Week Term

July 27, Monday: Classes Begin for Second Five-Week Term

August 28, Friday: End of Long Term and Second Five-Week Term

CLASS PERIODS

I. 7:45 - 8:45 a.m.

V. 1:15 - 2:15 p.m.

II. 8:50 - 9:50 a.m.

VI. 2:20 - 3:20 p.m.

III. 10:00 - 11:00 a.m.

VII. 3:25 - 4:25 p.m.

IV. 11:05 - 12:20 p.m.

VIII. 4:30 - 5:30 p.m.

Each course is scheduled Monday through Friday, but actual meeting days are set by the instructor.

CALENDAR 1969-1970

SEPTEMBER 1969

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THE COLLEGE AND ITS PURPOSE

Occidental College seeks to provide an education of high quality in the best tradition of the liberal arts, emphasizing thorough competence in a chosen field of study together with a broad understanding of man's historical and cultural heritage, and the relationships among fields of knowledge.

Students and faculty at Occidental are engaged in an intellectual partnership in which student initiative and responsibility are encouraged. To an unusual degree, students may participate in the construction of their own educational programs. Independent study and interdepartmental programs are encouraged.

Diversity is a key to the Occidental experience. The students represent varied intellectual interests, socioeconomic backgrounds, ethnic groups, religious beliefs, and social and political convictions. This diversity finds its expression not only in the variety of academic programs and options open to the student, but also through the entire range of student organizations and enterprises, and college cultural events, visiting lecturers, and forums, all of which taken together comprise the many facets of life in an invigorating academic community.

The College is committed to a philosophy of total education. Intellectual capability is a dominant component, but is conceived of as one dimension in a process which includes and stresses personal, ethical, social and political growth toward maturation as well. The high percentage of students in residence at the College works toward the achievement of this objective.

The successful Occidental student is a self-motivated person of independent mind and intellectual competence, whose judgments are based upon respect for evidence, ideas, and a deep concern for values, both private and public. He is alert to the possibilities of betterment, in himself, his college, and his society. Above all, he is one who realizes that no education is terminal, that he is in college to learn how to learn, so that he may carry on his own education for the rest of his life.

HISTORY AND DESCRIPTION

Occidental College is a coeducational college of liberal arts, founded in 1887 by a group of Presbyterian ministers and laymen. Although completely independent in governance since 1910, the College continues to be related to the United Presbyterian Church in the U.S.A. The College is governed by an independent and self-perpetuating Board of Trustees.

The first baccalaureate degree was conferred in 1893. Graduate instruction leading to the Master of Arts degree in selected fields was begun in 1922. Since 1958 the College has had a doctoral program in Comparative Literature and Anglo-American Literature. This program has been terminated, and no new candidates are now accepted for the doctoral degree. By authority of the California State Department of Education, Occidental recommends candidates for the elementary, secondary, and junior college teaching credentials.

The academic standards at Occidental have long been recognized. In 1918 the College was placed on the accredited list of the Association of American Universities. The Delta of California Chapter of Phi Beta Kappa was established at Occidental in 1926. The College is fully accredited by the Western Association of Schools and Colleges, and holds membership in a number of regional and national organizations in the field of higher education. Approximately two-thirds of each year's graduating seniors continue into graduate and professional schools. Occidental graduates have received some of the nation's most distinguished awards for graduate study, including Rhodes and Marshall Scholarships, Danforth, Fulbright, National Defense Education Act, National Science Foundation, Rockefeller Brothers, Root-Tilden, Rotary International, and Woodrow Wilson National Fellowships.

In addition to the recognition accorded its graduates, Occidental College has received national recognition through major grants in recent years from the Research Corporation, and the Ford, Rockefeller, Alfred P. Sloan, and other foundations. These grants have provided substantial support for special programs in the area of the humanities and the sciences, for work in non-Western studies, and for scholarship assistance to students from disadvantaged social and economic backgrounds.

The College has since 1914 occupied its present campus of one hundred and twenty acres in a residential section of northeast Los Angeles, six miles from the City Hall and midway between Pasadena and Hollywood. The campus lies on the slope of a low range of hills, and the location of buildings

HISTORY AND DESCRIPTION

and the landscaping have been planned to take full advantage of this hill-side situation. The present plant, valued at \$18,140,000, comprises thirty-three major buildings, including eleven residence halls which provide on-campus housing for approximately seventy percent of the student body.

The College's endowment at market value is in excess of \$18,000,000. The annual operating budget is \$6,937,000.

Occidental College has the confidence and support of many persons, corporations, foundations, church groups, and other organizations. This variety of support yields strength, independence, and freedom, and enables the College to realize its objectives as an education institution.

The Presidents of Occidental College since its founding have been:

REV. SAMUEL H. WELLER, A.M., D.D.	1887-1891
J. MELVILLE MCPHERRON, A.M.	1891-1894
REV. ELBERT N. CONDIT, A.M.	1894-1896
REV. JAMES W. PARKHILL, A.M., D.D.	1896-1897
REV. GUY W. WADSWORTH, D.D.	1897-1905
REV. WILLIAM STEWART YOUNG, D.D. (Acting President)	1905-1906
JOHN WILLIS BAER, LL.D., LITT.D.	1906-1916
THOMAS GREGORY BURT, PH.D., (Acting President)	1916-1917
REV. SILAS EVANS, D.D., LL.D.	1917-1920
THOMAS GREGORY BURT, PH.D. (Acting President)	1920-1921
REMSSEN BIRD, B.D., D.D., LL.D., L.H.D.	1921-1946
ROBERT G. CLELAND, PH.D., LL.D., LITT.D., L.H.D. (Acting President) First Semester	1927-1928
ARTHUR G. COONS, PH.D. (Acting President)	1945-1946
ARTHUR G. COONS, M.A., PH.D., LL.D., SC.D., L.H.D.; C.B.E. (Hon.)....	1946-1965
RICHARD C. GILMAN, PH.D., LL.D.	1965-

For a complete history of the College, see Andrew F. Rolle, *Occidental College: The First Seventy-Five Years* (1962).

THE CAMPUS

ARTHUR G. COONS ADMINISTRATIVE CENTER, named by the Board of Trustees in honor of the College's President from 1946 to 1965, was financed by the gifts of alumni, friends, corporations, and foundations. In the building are located the administrative offices, the Board room, and the Computer and Data Processing Center, containing the IBM 1620 and associated equipment. *Erected 1968.*

JOHNSON HALL is the gift of Mr. and Mrs. O. T. Johnson of Los Angeles, generous benefactors of the College. In Johnson Hall are located faculty offices, classrooms, a lecture hall seating three hundred seventy, a sixty-three position Language Laboratory, and instructional television facilities. *Erected 1914.*

FOWLER HALL, erected as a memorial to Eldridge M. Fowler of Pasadena by his daughter and granddaughter, provides classrooms, laboratories and offices for several departments. *Erected 1914.* A subcritical reactor and associated measuring equipment installed in this building under a grant from the Atomic Energy Commission in 1959 provides exceptional facilities for the study of all aspects of nuclear physics at the undergraduate level. The Edward Hayes Morse Collection of Astronomical Instruments and the Frank J. Smiley Geological Collection are located in Fowler Hall.

JAMES SWAN HALL, at the west side of the main quadrangle, *erected 1914* by Mrs. Frances B. Swan as a tribute to her husband, provides seminar rooms and faculty offices.

THE MARY NORTON CLAPP LIBRARY is the gift of Mrs. Emma B. Norton in memory of her daughter, Mrs. E. P. Clapp. In addition to the reference, periodical and stack rooms, this building also provides conference rooms, a seminar room, and a graduate students' reading room. *Erected 1924.* During the year 1954-55 gifts from Norton Clapp, '27, and others of the Clapp family made it possible to double the size of the Library by the addition of wings on the east and west sides. These additions provide a browsing room, reading rooms and additional stack space. A Fine Book Room has been equipped and furnished through gifts from the Carl F. Braun family as a memorial to Carl F. Braun.

THE CAMPUS

THE WILLIS H. BOOTH MUSIC-SPEECH CENTER consists of a one-story building, with practice rooms and the Helen and Remsen Bird Studio, and a two-level structure providing departmental offices, the Douglas Wright, Jr., Memorial Room (for choral music) with Kilgen organ, the Dorothy Buffum Chandler Instrumental Rehearsal and Music Classroom, Playmill, teaching studios, music library and listening booths, practice and seminar rooms. Both structures are the gifts of many alumni and friends of the College. *Original structure erected 1929; two-level structure, 1960.*

BELLE WILBER THORNE HALL, the college auditorium, was erected by Charles H. Thorne in memory of his wife. In addition to the auditorium, seating one thousand, the building provides a large stage, practice and rehearsal rooms for drama and choral groups, and other facilities for the Music and Speech Departments. The four-manual Skinner organ is the gift of Mrs. Euclid W. McBride, '19, and her husband. *Erected 1938.*

THE ROBERT T. MOORE LABORATORY OF ZOOLOGY is the gift of Dr. Robert T. Moore and Margaret C. Moore of Borestone Mountain, Monson, Maine, as Trustees of the Orcutt and Margaret Trusts. This building contains the Robert T. Moore Collection of sixty-five thousand specimens of birds and mammals and has classroom and research facilities. *Erected 1951.* An addition completed in 1969 provides a teaching laboratory and facilities for live birds and a sea water system and aquarium room for marine vertebrate zoology.

THE ART BUILDING, south of the Library, makes available three studios, one classroom, a work room and office space for the Art Department. *Erected 1955.*

THE ART STUDIO, formerly the Women's Gymnasium, erected in 1922, provides additional facilities for the Department of Art, including studios for sculpture, graphics and advanced work in comprehensive projects.

THE KENNETH T. NORRIS HALL OF SCIENCE, containing THE EARLE M. JORGENSEN LABORATORIES in Biology and Chemistry and the SAMUEL B. MOSHER SCIENCE LECTURE HALLS, recognizes the vision and the generosity of these members of the Board of Trustees and their wives and the generosity of the Carl F. Braun Trust. This building includes an auditorium seating 225, two lecture rooms, laboratories and offices for the departments of Biology and Chemistry. The Calvin O. Esterly Memorial Collection of Natural Science is housed in Norris Hall of Science. *Erected 1960.*

THE HILLSIDE THEATRE is the gift of the Eagle Rock community, Mr. Alphonzo Bell, '95, Mr. William Meade Orr, Mrs. Calvin Pardee, and other friends of the College. In the main it is Greek in design, but has a raised stage and a circular orchestra pit approached by a stepped ramp. The theatre has a seating capacity of approximately five thousand, and is noted for its picturesque location and remarkable acoustic properties. *Erected 1925.*

THE DRAMA WORKSHOP, a one-story building located on the west side of the Hillside Theatre, provides classrooms and workshop areas for the performing arts. *Erected in 1965.*

THE ROBERT FREEMAN COLLEGE UNION serves as a center for the social life of the campus. It includes dining rooms, a soda fountain and lounges, one of which has been named in memory of Mrs. Julia A. Pipal, for many years Director of Residence and Social Activities. This building also contains student body offices, the Bookstore, the College Post Office, the office of the Purchasing Agent, the Plant Offices and the central heating plant. *Erected 1928; addition completed 1956.* In 1953 and 1954, certain improvements of the private dining room and the reception lounge were made possible by gifts from Mr. and Mrs. Carl F. Braun and the C. F. Braun Co.

HELEN G. EMMONS MEMORIAL is the gift of G. E. Emmons in memory of his wife. This building is a health center for the treatment of minor illness. *Erected 1936.*

THE FACULTY CLUB occupies a building erected in 1922 as the President's House. Through the generosity of the Carl F. Braun Trust this building was remodeled and refurnished in 1957 for its present use.

HERRICK MEMORIAL CHAPEL was made possible by a bequest of the late John Pierce Herrick in memory of his wife, Margaret Brown Herrick. This building provides for a Chapel accommodating 500, with the Mildred Miles Crew Memorial Organ, a three-manual Schlicker instrument; a fellowship hall, seminar and reading rooms, and office accommodations for the Chaplain. *Erected 1964.*

RESIDENCES FOR MEN AND WOMEN

HERBERT G. WYLIE HALL, a men's residence named in honor of a generous patron of the College and a member of the Board of Trustees, provides rooms for fifty men. *Erected 1940.*

THE CAMPUS

STEWART-CLELAND HALL, a men's residence named in honor of Milton and Mary W. Stewart, generous benefactors of the College for a long period of years; and Robert Glass Cleland, '07, Ph.D., LL.D., Litt.D., L.H.D., historian, author, Professor of History, former Dean of the Faculty and Vice-President and member of the Board of Trustees; his father, the Reverend Robert W. Cleland; his mother, Sallie Glass Cleland; his brother, T. Horace Cleland, '03; and his wife, Muriel Stewart Cleland. This building houses 144 men. *Erected 1953.*

BELL-YOUNG HALL, a men's residence named in memory of two families of great significance in the life of the College, recognizes especially Mr. James G. Bell, a founder; Mr. Alphonzo E. Bell, onetime president of the Board of Trustees and great benefactor; and Dr. and Mrs. William Stewart Young, Dr. Young having been a founder and for fifty years the secretary of the Board of Trustees. This building honors also the members of these two families. It accommodates 107 men. *Erected 1956.*

BRAUN HALL, a men's residence, is named in memory of Carl F. Braun, a generous benefactor of the College. This hall, fully air-conditioned, accommodates 109. *Erected 1962.*

PAULEY HALL, a men's residence, is named in memory of Elbert L. and Ellen E. Pauley, in recognition of the gifts of Edwin W. Pauley, '23, and Mrs. Pauley. This hall accommodates 107. *Erected 1959.*

BERTHA HARTON ORR HALL, a women's residence, was given by William Meade Orr in memory of his wife. This hall offers living quarters to sixty-five women. *Erected 1925.*

GRACE CARTER ERDMAN HALL, a women's residence, was built in memory of the wife of Professor Pardee Erdman. It was made possible in part by gifts from Mrs. Calvin Pardee, Mrs. Charles R. Erdman, Professor Erdman, and friends, and in part by college funds. Erdman Hall accommodates seventy women. *Erected 1927.*

HAINES HALL, built in honor of Mr. Francis Haines and Mrs. Mary Orr Haines, his wife, is a women's residence. Erected in 1940 to accommodate seventy-three students, this building was enlarged to provide space for thirty-two additional women in 1954.

ANNA CLUTE NEWCOMB HALL, a residence for 136 women students, is named in recognition of Mrs. James G. Newcomb, trustee and benefactor, who had great interest in the welfare of the women students and rendered many services to the College. *Erected 1956.*

CHILCOTT HALL, a women's residence, is named in honor of Mr. and Mrs. E. R. Chilcott and the Chilcott family, benefactors of the College. This hall is integrated with Orr Hall and accommodates eighty-four. *Erected 1959.*

EILEEN NORRIS RESIDENCE HALLS are the first coeducational complex with two sections, one housing ninety-three men and the other housing sixty-two women, with communal facilities including a lounge, recreation room, library and three seminar rooms. Student rooms are arranged in cluster groups of eight. The International and Language Center is located here. Named in honor of Mrs. Kenneth T. Norris in recognition of the gifts from her and her husband. *Erected in 1966.*

GYMNASIUM, ATHLETIC AND RECREATIONAL FACILITIES

THE ALUMNI GYMNASIUM, a reinforced concrete structure situated south of Patterson Stadium, provides a dance studio, classrooms, and offices for the Department of Physical Education. It was constructed from gifts by Alumni and the Associated Students. *Erected 1926; enlarged 1965.*

THE E. S. FIELD MEMORIAL BUILDING surrounds the open-air steam-heated TAYLOR SWIMMING POOL. The pool was the gift of Mr. and Mrs. J. Hartley Taylor and their daughter, Mary Barbara Taylor, '29, and the Field Building honors Mr. E. S. Field, an early president of the Board of Trustees. *Erected 1930.*

THE FRANK NEILL RUSH GYMNASIUM, named in honor of a distinguished athlete and alumnus ('09); member of the Board of Trustees since 1926 and its Chairman 1947-51 and 1956-57; provides a basketball pavilion, with dressing and locker facilities. It has a seating capacity of 1,800. *Erected 1965.*

THE W. C. PATTERSON STADIUM AND ATHLETIC FIELD, named in honor of a friend and former trustee, was erected by Mrs. Patterson. The stadium has a seating capacity of five thousand five hundred, and provides a football field, track, and other facilities for physical education and outdoor sports. *Erected 1916.*

THE W. W. ANDERSON BASEBALL FIELD is located to the north and east of Stewart-Cleland Hall.

THE PAUL SPENCER BASEBALL FIELD HOUSE, a gift of Paul Spencer, '28, is located on Anderson Field to accommodate Varsity, Freshman and visiting baseball teams. *Erected 1958.*

THE CAMPUS

There are six TENNIS COURTS on the campus, three of which are the gift of Mr. A. E. Bell, '95, president of the Board of Trustees from 1938 to 1945, and one the gift of A. C. Way.

ADMINISTRATION HOMES

THE PRESIDENT'S HOUSE, located above the women's residence quadrangle and adjacent to the Hillside Theatre, is of the California Monterey style of architecture. *Erected 1932.*

Two other campus residences are available for administrative officers, one, of the California Monterey style of architecture, occupying a hillside location adjacent to the Hillside Theatre, *erected 1932*; and one of contemporary style of architecture, occupying a site opposite the President's House, *erected 1951.*

GENERAL

THE CENTRAL QUADRANGLE was relandscaped in 1937 under a comprehensive plan developed by Mrs. Beatrix Farrand, landscape consultant, and the college architects, with funds provided by Mr. Alphonzo E. Bell, '95.

GATES. Three of the six entrances to the campus are marked by ornamental gates erected by the following persons:

Alumni Avenue—William Meade Orr.

Westdale Avenue—Mrs. Mary C. Pardee.

Ridgeview Avenue—Mr. and Mrs. Walter Van E. Thompson.

THE ACADEMIC PROGRAM

The Occidental College curriculum is organized under a Three Course-Three Term plan, adopted in 1963 to permit greater depth of study. Each student may take a maximum of three full courses and two fractional courses per term.

The regular undergraduate program normally extends through four academic years and leads to the degree of Bachelor of Arts.

There are a number of opportunities, each set forth in detail elsewhere in this bulletin, for flexibility within the pattern toward the Bachelor of Arts degree. There is provision for independent study, for credit by examination, for courses to be taken on a pass/fail basis, without a grade, and for advanced placement and credit. The College Scholar Program enables a student to develop an individual plan of study, with no specific all-college requirements demanded after the freshman year, the spirit or essence of the requirements being met by regular courses, credit by examination, or independent study. International study programs are available for those desiring study abroad at some period in their undergraduate years.

Eighteen departments each offer one or more majors. In addition, there are interdepartmental majors in American Studies, Diplomacy and World Affairs, Geochemistry, and Geophysics and interdepartmental programs in Political and Social Behavioral Studies, Urban Studies, and Soviet Studies. It is also possible for a student to propose for approval combined majors involving more than one department. There is opportunity for students to undertake research projects under faculty guidance.

Occidental College cooperates with Columbia University and with the California Institute of Technology in programs of engineering education.

Graduate work at Occidental College is limited to areas in which adequate facilities and teaching staff permit distinctive offerings. The degree of Master of Arts is offered in twelve fields, and the Master of Arts in Teaching in five fields. General policies have been established for the direction of work of high quality, but flexibility in the application of these policies makes it possible to adapt the program of each graduate student to suit his individual needs and interests. Graduate work may be directed toward research as a foundation for doctoral study, toward preparation for teaching, or toward attainment recognized by the degree of Master of Arts.

In both undergraduate and graduate work, individual instructors are free to conduct their courses within the format and scheduling pattern best suited for the subject being taught. Some subjects, for example, have special

THE ACADEMIC PROGRAM

sections taught in a foreign language, or are sectioned to provide unusual opportunities for particularly able students.

HONOR SPIRIT

Occidental operates under the Honor Spirit, a cherished tradition on the campus. Each student is placed on his honor to conduct himself in all scholastic and extracurricular activities in accordance with the highest principles of personal integrity. This means that cheating in any phase of academic work or acts which would violate principles of personal integrity are violations of the Honor Spirit. As a part of responsible living, students are on their honor to safeguard these privileges not only for themselves but for other students as well. This tradition carries both privileges and responsibilities, and represents the highest expression of student self-discipline.

SUMMER TERM

The Summer Term provides profitable and interesting experiences which are not available in the other terms. Certain courses offered in Fall, Winter and Spring also are taught in the Summer Term.

Courses are available for both graduate and undergraduate students who are candidates for degrees and/or credentials and who wish to enrich or accelerate their programs or to make up course deficiencies; for teachers who are interested in professional advancement or who wish to renew their credentials; for adults who wish to elect courses for their own interest and improvement; and for high school students after the junior year who plan to enter a college or university.

The Summer Term covers a period of ten weeks. Included within it are two separate five-week sessions. Students may register for the entire term or for one of the shorter sessions. Dates for 1970 are listed in the College Calendar on page 6. Detailed information concerning the Summer Term is available in a bulletin which may be obtained by writing to the Assistant Dean of the Faculty.

UNDERGRADUATE STUDY

BACHELOR OF ARTS DEGREE

Unless modified in individual cases by administrative action, or by participation in the College Scholar Program, the following requirements must be fulfilled by all students in order to qualify for formal recommendation by the faculty for the degree of Bachelor of Arts:

1. The completion of a minimum of thirty-five courses. A maximum of thirty-six courses may be allowed. Both minimum and maximum are exclusive of physical education activity courses. (See footnote concerning fractional courses.)

2. The completion of general course requirements as follows:

A. History of Civilization—a six-course sequence, to be taken during the freshman and sophomore years.

B. A Foreign Language—The requirement may be met by an examination of competence or by completion of three term courses, whichever comes first. This is to be completed in the freshman and sophomore years except in the case of those whose major requirements make necessary postponement to the junior year.

C. Natural Science—three courses. The requirement may be met by completion of the three-term Natural Science sequence, by three courses within a single science department, or by such other sequences as have the approval of the Natural Science staff. The requirement is to be completed by the end of the junior year.

D. Physical Education—one basic skill or activity each term during the freshman year, evaluated as one-sixth course per term. The Physical Education Department may establish standards of proficiency to determine the skill or activity course for which the student is best qualified.

3. The demonstration of competence in English. Each student is expected to use acceptable English throughout his studies. The College Committee on English will evaluate the student's use of English from time to time

NOTE: Certain courses are listed as fractional courses, evaluated as one-sixth or one-third course per term. Not more than two such courses may be taken in any one term. Degree credit for such courses is optional except where required by the major department. On petition to the Registrar, six one-sixth or three one-third fractional courses taken within a single department or in related fields may be credited as a full course. If this credit is in addition to the three courses covered by full tuition in the term in which the credit is established, a tuition fee of \$250 will be charged for the additional course. No tuition will be charged if the accumulated credit is within the three-course limit for the term. Of the thirty-six courses allowed for graduation, not more than two courses may be composed of accumulated fractional credit.

UNDERGRADUATE STUDY

during his freshman and sophomore year and on occasion thereafter through careful examination of written work done in classes. In cases of deficiency the College Committee on English will require the student to enroll in English 1 or other courses designed to improve and correct his use of English. Although a student with serious problems may be required to enroll for a total of more than one course during his undergraduate career to remedy his situation, not more than one course credit for such work may be counted toward graduation requirements. English 1 is designed for students with basic inadequacies in written English, and entering students who are in need of improvement should plan to enroll in this course during the first term of residence.

4. The completion of American History, United States Constitution and California state and local government as required by Act of the California State Legislature. The American History may be met by History of Civilization 4 or 5, or by History 103 or 104. The United States Constitution requirement may be met by an examination given in the spring term, or by History 101, or by Political Science 50. The requirement in California state and local government may be met by examination given in the fall term, or by History 105, or by Political Science 50. If examinations are chosen, these should be completed as early in the student's career as possible. The examination in United States Constitution must be passed not later than the regularly scheduled test date in the spring term of the student's junior year. That in California State and Local Government must be passed not later than the regularly scheduled test date in the fall term of the student's senior year. Consult the History of Civilization office for test dates.

5. The completion of a major. The minimum number of courses is to be prescribed by the individual departments. The maximum number of courses that can be required by a department is twelve, but students who wish to do so are permitted to take more than the required number of courses in their major subject. It would ordinarily be expected that not more than one-half their total course work would be taken in their major department, nor would more than two courses per term be taken in any one department.

6. The passing of a final comprehensive examination in the major subject or area of concentration in the candidate's senior year.

7. Attendance at Occidental College during the final year prior to completion of degree requirements, with a minimum of eight courses for the year's work. A transfer student from another institution being granted senior standing must complete a full year's work of nine courses at Occidental College.

8. The attainment of a C average or better for all courses undertaken at Occidental College and for the student's entire course.

UNDERGRADUATE STUDY

9. The fulfillment of all degree requirements, other than the comprehensive examination and work in course in the final term, at least six weeks prior to graduation.

The degree of Bachelor of Arts is conferred at the June Commencement upon all candidates who have satisfied degree requirements at any time since the last Commencement.

HONORS AT GRADUATION

Graduation Honors include the following: *Summa cum Laude*, awarded to those students who achieved a grade of A in at least 8/9 of their courses taken with a grade and have passed the comprehensive examination with distinction; *Magna cum Laude*, awarded to those students who have achieved a grade of A in at least 2/3 of all courses taken with a grade and have passed the comprehensive examination; *Cum Laude*, awarded to those students who have achieved a grade of A in at least 5/12 of all courses taken with a grade and have passed the comprehensive examination.

Information concerning Departmental Honors will be found on page 35.

MAJOR CONCENTRATION

Not later than the beginning of the junior year, each student shall select one or more specialized areas in which he wishes to concentrate. Thereafter his program will be supervised by the chairman of his chosen major department.

A list of undergraduate majors, including options where choice of more than one emphasis is offered within a department, is given below. Detailed information may be found under departmental announcements as indicated by page references.

The following regulations apply to all departments, under the general supervision of the Dean of the Faculty:

1. Departments shall specify the minimum number of courses which constitute a major. They may not require more than twelve, but students wishing to do so may take additional course work in their major.

2. Each department shall require of its major students in the senior year a comprehensive examination, the evaluation of which becomes a part of each student's permanent record.

3. In general students who fail to attain a C average in introductory and intermediate courses of any department will not be accepted by that department as majors. The recommendation of the major department is necessary for graduation.

UNDERGRADUATE STUDY

4. A change in the choice of a major may be made only through formal petition approved by the Registrar and the chairmen of the departments concerned.

5. A student finding it necessary to change his major subject because of unsatisfactory scholarship in that subject may be placed on probation. Unsatisfactory scholarship in the new major may lead to his suspension from the College.

INTERDEPARTMENTAL MAJORS:

Page Ref.

American Studies	44
Chevalier Program in Diplomacy and World Affairs	46
Emphasis may be directed toward Political Studies, Economic Studies, Cultural Studies or Regional Studies (Asia, Latin America, Europe, Soviet Union, or Africa)	
Geochemistry	69
Geophysics	131

INTERINSTITUTIONAL PROGRAMS:

Combined Plan Program in Liberal Arts and Engineering:

Physical Sequence	55
Chemical Sequence	55

DEPARTMENTAL MAJORS:

Art:

History	59
Creative	59
Biology:	63
Chemistry:	68
Economics:	73
Business Administration	73
English:	81
Comparative Literature	81
Geology:	88
History:	91
Languages and Linguistics: Group Major	99
French	99
German	99
Russian	99
Spanish	99

UNDERGRADUATE STUDY

Mathematics:	109
Music:	113
Emphasis may be directed toward Composition, Performance (Conducting or Recital), History of Music, or Music Education	
Philosophy:	121
Physical Education:	123
Physics:	130
Political Science:	134
Psychology:	140
Religious Studies:	144
Sociology-Anthropology:	147
Speech-Drama:	153

COMPREHENSIVE EXAMINATIONS

Comprehensive examinations have at least two central and related objectives:

(1) To provide an opportunity for senior students to synthesize the essential concepts, content, and methods of their academic field, and, during the course of their review, to establish central relationships among the materials covered in separate courses.

(2) To provide an opportunity for students to demonstrate their competence in their field by applying their knowledge to central relational problems, questions, or topics.

Since no single type of examination experience will serve all academic fields with equal effectiveness, departments have freedom to set either a single examination or a related group of synthesizing experiences as constituting the comprehensive. Related experiences may include, but are not limited to, seminars, theses, creative projects, field research projects, and oral examinations. Any collective experience which is evaluated by the department rather than an individual instructor, and which in the opinion of the department works toward the objectives and embodies the characteristics described above, may be construed as meeting the intent of the college requirements.

The examination may be designed to be taken during one time period or may be phased through the senior year, depending upon its nature. An examination period is set at or near the end of each term, and formal examinations are administered during these periods.

Departments have the right to waive course final examinations during a term in which the central portion of the comprehensive is administered.

UNDERGRADUATE STUDY

In place of a letter grade for evaluating comprehensive examinations, a three-category system is used: Pass with Distinction, Pass, and Fail.

A student who fails to pass his comprehensive examination may not take a second examination within six weeks after the date of failure unless special consideration is recommended by his major department.

PRE-PROFESSIONAL COURSES

The plan of undergraduate study at Occidental College emphasizes a liberal education of the type which is generally recognized as desirable preparation for professional or vocational fields. Opportunity is afforded, however, for flexibility in developing programs suited to students' individual needs and in providing for the subjects which are specified by many professional schools as a basis for graduate study. Suggestions concerning adaptation of majors to preparation for various vocational and professional fields are included in departmental announcements in this catalog. A partial list of these fields is summarized below. Students interested in any of them should seek counsel from advisers as indicated. Detailed information concerning vocational opportunities and preparation may be obtained from the Director of Career Counseling and Placement. In all cases, students are expected to fulfill general degree requirements as outlined on pages 19-22.

	<i>Adviser</i>	<i>Page Ref.</i>
Business Administration	Haring	73
Diplomacy and Foreign Service.....	Mill	46
Engineering: Chemical	Cleland	55, 68
Mining and Petroleum.....	Birman	55, 88
Civil, Electrical and Mechanical....	Nelson	55, 130
Government Service or Law.....	McKelvey, Reath	134
Journalism and Writing.....	Owen	81
Librarianship	Harmsen	156
Medicine, Dentistry	McAnally	54
Ministry and Religious Education.....	Beebe	144
Music	Jones	113
Personnel Work	Mahler	140
Physical Education	Dunlap	123
Public Administration	Lare	134
Social Work	Mahler, Littleton ..	140, 147
Teaching	Petrie	76

GRADUATE STUDY

Graduate study may be undertaken at Occidental College in those academic areas for which facilities and staff are available to provide distinctive offerings at the graduate level. Admission to graduate standing is competitive, and the number of students admitted is sufficiently small to insure flexibility in arranging individual programs of study, within a general framework of policies that assure high academic standards.

Occidental College confers the degrees of Master of Arts and Master of Arts in Teaching upon qualified students who have demonstrated achievement and ability in the course of their graduate study. (No new students have been admitted since the academic year 1966-67 to programs leading to the degree of Doctor of Philosophy.) Graduate study may be undertaken as preparation for teaching or for research, as preparation for doctoral study elsewhere, or as a means of fulfilling requirements for the Master's degree as a terminal degree.

At the present time, the Master of Arts degree is offered in the departments of: Biology; Education; English and Comparative Literature; Languages and Linguistics (French, German, Spanish); Music; Speech and Drama; Psychology; History; Political Science; and in the interdepartmental Chevalier Program in Diplomacy and World Affairs.

Through a cooperative program with the Coro Foundation, the Master of Arts in Urban Studies is offered to persons successfully completing the Coro Internship program.

In addition, the Master of Arts in Teaching degree is available in the departments of English and Comparative Literature (M.A.T. in Literature), Mathematics, Music, Speech and Drama, and in the Department of Languages and Linguistics through the program in Teaching English to Speakers of Spanish.

Currently, the Master of Arts in Teaching degree is available only to individuals who possess, or become candidates for, the standard credential in secondary education.

By authority of the California State Department of Education, Occidental also recommends candidates for the standard teaching credential with specialization in elementary, secondary, and junior college teaching. Internships in the Los Angeles metropolitan area are available to qualified students seeking teaching credentials at Occidental.

Students in graduate standing at the College are entitled to special library privileges intended to facilitate their research and study. These include

GRADUATE STUDY

withdrawal of library books for extended periods and access to the Graduate Reading Room of the main library.

ADMISSION

Graduates of recognized colleges and universities are eligible to apply for graduate standing at Occidental College. Admission is competitive, preference being given to applicants whose preparation and achievement are superior. In exceptional cases, a student who has demonstrated superior ability but whose preparation for graduate study is inadequate may be admitted under the condition that he take certain undergraduate courses in addition to the graduate work required for the degree he seeks. Graduate students are admitted subject to the general regulations of the College and to specific regulations determined by the Graduate Committee.

Applications for graduate standing must be completed prior to the dates indicated in the following schedule:

For graduate study to begin with:	Applications and admission credentials must be received by:
Fall Term	August 1
Winter Term	November 15
Spring Term	February 15
Summer Term	May 15

Applicants for financial aid, however, must complete application for graduate standing and for financial aid by March 1; normally graduate fellowships are tenable only for the usual academic year beginning with the fall term.

Each applicant must file with the Graduate Office, Occidental College, Los Angeles, California 90041, the following credentials:

1. Application fee of \$20.
2. A completed application form, including a statement of his objectives for graduate work.
3. A small photograph.
4. Official transcripts of all academic work at the college or university level, including previous graduate work. (Persons seeking teaching credentials should file two copies of each transcript.)
5. Letters of recommendation from three persons. These should include, if possible, one letter from the applicant's undergraduate adviser in his major field.

6. An official report of his test scores from:

- a. The Graduate Record Examination Aptitude Test, (In special cases the Miller Analogies Test may be substituted.)
- b. The Graduate Record Examination Advanced Tests Section in the applicant's major field of study. Applicants for the standard elementary teaching credential may take the Advanced Tests in either Education or their major fields; applicants for the secondary credential must take the Advanced Tests in their major fields.

Applicants who are students in good standing at Occidental College may submit only items 2 and 6. Former Occidental students who have been away from the College more than one term must submit an application for readmission in addition to items 2 and 6. Applicants who also have attended other institutions must submit item 4 from those institutions.

FINANCIAL AID

Some financial aid to graduate study is available from the College. Applications for financial assistance must be filed with the Graduate Office by March 1 of the year in which the applicant wishes to enroll.

**CANDIDACY FOR ADVANCED DEGREES
AND TEACHING CREDENTIALS**

Admission to graduate standing does not necessarily establish candidacy for an advanced degree or for a teaching credential. However, candidacy for the degree of Master of Arts may be granted, upon admission to graduate standing, to a student whose undergraduate preparation provides a thoroughly satisfactory background for the graduate work he proposes to pursue. In those instances when a student seeking the M.A. degree is admitted to graduate standing but not to candidacy for the degree, the student will be required by his major department to take certain background courses in addition to the graduate courses he includes in his plan of study. When the background courses have been completed at a level of achievement satisfactory to the student's major adviser, the student may apply to the Graduate Committee, through the Graduate Office, for candidacy for the degree of Master of Arts. Appropriate forms for such applications are available in the Graduate Office.

Candidacy for the degree of Master of Arts in Teaching is established in the same way as candidacy for the Master of Arts degree if the student possesses a valid standard teaching credential in secondary education. A student who does not possess such a credential must become a candidate

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for the standard secondary teaching credential in addition to meeting the conditions of candidacy for the Master of Arts degree. If he fulfills the latter conditions at the time of his admission to graduate standing, he may be admitted provisionally to candidacy for the M.A.T. degree upon admission to graduate standing.

In all cases, a student admitted to graduate standing must achieve candidacy within one calendar year of his admission to graduate standing. Candidacy for a degree expires at the end of five calendar years from the date of admission to candidacy.

A student may be admitted to candidacy for the standard teaching credential when he has satisfied each of the following requirements:

1. Achievement of a thoroughly satisfactory record in his undergraduate course and high academic achievement in courses from the departments chosen for the teaching major and minor.
2. Approval of proposed courses by the chairman of the Department of Education and the chairmen of the student's major and minor departments. The list of courses shall be presented in the application to the Department of Education after consultation with that department and with advisers in the teaching major and minor departments. Undergraduates at Occidental College who plan to take graduate work for teaching credentials should file their applications no later than May 1 of their sophomore year. After the list of courses has been approved, it may be changed only with the permission of those who recommended candidacy.
3. Attainment of a B average in the entire program of graduate work. A summary of professional requirements for the standard teaching credentials will be found in this catalog under the statement of the Department of Education. The attention of graduate students is called to the fact that it is not possible to complete requirements for both the teaching credential and the advanced degree within three terms.

The granting of candidacy for teaching credentials and the processing of recommendations of candidates to the State Department of Education are done by the Department of Education of the College.

PLAN OF STUDY FOR CANDIDATES FOR THE M.A. AND M.A.T. DEGREES

At the time of acceptance into graduate standing, an applicant who has indicated that he intends to work toward the Master's degree at Occidental is given an outline of general instructions. His plan of study is to be pre-

pared with the recommendation and consent of a supervising committee. The chairman of this committee shall be his major adviser, and the committee shall include at least one representative of the College at large who does not belong to the major department of the student (nor, in the case of M.A.T. candidates, to the Department of Education).

The student's plan of study must include a schedule for meeting the following requirements:

1. The passing of a qualifying examination demonstrating the fitness of the applicant to carry on graduate work, given at the option of the student's major department.
2. Demonstration of the level of attainment in foreign languages if required by the student's major department.
3. Completion of a minimum of six courses at the graduate level. Several alternative plans are available, although not all departments participate in all the plans; the student should consult with his major adviser to determine which plans are available in his department. The alternatives are as follows:
 - (a) The Thesis Plan, requiring the preparation of an original dissertation, credited as one course, and the completion of a minimum of five additional courses.
 - (b) The Creative Work Plan, requiring the completion of an original work exhibiting high aesthetic or inventive imagination (which might be, for example, a musical composition, a novel, or a piece of scientific equipment), credited as one course, and the completion of five additional courses.
 - (c) The Seminar Plan, requiring the completion of six courses including not fewer than three courses of research or seminar type in which significant investigations shall be completed and reported.
 - (d) The Apprenticeship Plan, requiring the completion of six courses, of which a minimum of four shall be seminar courses, together with three one-term apprenticeships, each under a different member of the senior staff who has consented to serve as the student's master. The apprentice is required to spend three hours per week engaged in duties prescribed by the senior staff member concerned. These duties may include reading term papers and examinations, leading discussion groups, making classroom presentations, preparing research bibliographies, and similar work which will provide a range of educational and professional experiences for the student. Written evaluation of the

GRADUATE STUDY

apprentice will be filed with the departmental chairman by each staff member concerned, and will form a part of the student's permanent departmental record, and will serve as an additional basis for statements of reference and recommendation.

(e) The Teaching Internship Plan (available only to candidates for teaching credentials), details of which are available from the Department of Education. Associated with the Internship Plan for candidates for the M.A.T. degree is a required seminar in subject-matter teaching that is concurrent with the internship.

Not less than one-half of the work shall be completed in the student's major department; the remainder may be chosen from courses in the major department or from related courses in other departments to form a consistent plan of study.

4. The passing of a final examination demonstrating a thorough grasp of the candidate's field of emphasis. In cases where the program is highly specialized, the Graduate Committee may require that the final examination cover a broader field than that represented by research and/or thesis. A member of the Graduate Committee will be present at the candidate's oral examination.

Course credit toward an advanced degree may be given for courses numbered 200 and above. Summer Term work in such courses at Occidental College is acceptable toward the Master's degree. No credit toward an advanced degree may be given for courses taken in fulfillment of requirements for a Bachelor's degree.

It is the joint responsibility of the student and his major adviser to formulate, within the policies of the College and the major department, a consistent plan of study that simultaneously meets the needs of the student and meets the academic standards of the College. The proper scheduling of courses, examinations, deadlines for papers and dissertations, and of requesting final approval of the student's candidacy, are integral parts of such a formulation. The execution of the plan, however, is entirely the responsibility of the student.

FINAL APPROVAL OF CANDIDACY FOR THE M.A. OR M.A.T. DEGREE

The degrees of Master of Arts and Master of Arts in Teaching are conferred upon candidates formally recommended by the faculty on the basis of approval by (a) the candidate's supervising committee, (b) the Graduate Committee, and (c) the Dean of the Faculty or his deputy. Such approval is contingent upon satisfaction of the following requirements:

GRADUATE STUDY

1. The completion within not more than five calendar years of a consistent plan of study, with a B average in all graduate work undertaken at Occidental College and a B average in all graduate work in the major department.
2. The satisfactory completion of (a) a thesis, or (b) creative work, or (c) three seminar papers and/or projects, or (d) apprenticeship, or (e) an internship seminar report. The relevant material shall be presented to the Graduate Committee not later than May 1 in approved form as specified in instructions issued to degree candidates at the time of approval of candidacy and shall include approval by the members of the supervising committee.
3. The passing of a final examination as described under item 4 of the Plan of Study above.
4. Presentation to the Graduate Committee not later than May 1 of an application for final approval of candidacy for the degree of Master of Arts, including signed recommendations from the members of the supervising committee and the Graduate Committee examiner.
5. In the case of candidates under the Thesis Plan, deposit with the Graduate Office not later than May 1 of a receipt from the College Librarian showing payment of a \$10.00 fee for binding the original typewritten copy of the thesis plus the cost of a microfilmed second copy. This receipt is to be presented with the approved thesis.

PROGRAMS OF STUDY AND COURSES OF INSTRUCTION

The following pages describe the ways in which one can receive course credit toward a degree, the several interdepartmental majors and programs, and the courses of instruction.

The work of the Occidental College curriculum is measured in terms of courses. The number of class meetings and their length, within an established schedule, is determined by individual departments. Course descriptions include information concerning laboratory work.

Courses numbered 1-49 are considered basic or introductory courses, those numbered 50-99 are intermediate level courses, and those numbered 100-199 are advanced courses intended primarily for third and fourth year students. Where courses are doubled-listed under 100 and 200 numbers, undergraduates are expected to register for the 100 numbers and graduates for the 200 numbers. Additional work will be specified by instructors for those who register for 200 courses.

Courses numbered 300 and 400 are limited to graduate students only.

Course numbers preceded by X indicate fractional courses for which no credit may be given until the equivalent of one course has been accumulated within a single department or in related fields. (See page 19.)

Changes in course offerings and in faculty occurring after publication of the catalog for 1969-1970 and lists of classroom numbers will be announced prior to the opening of each term.

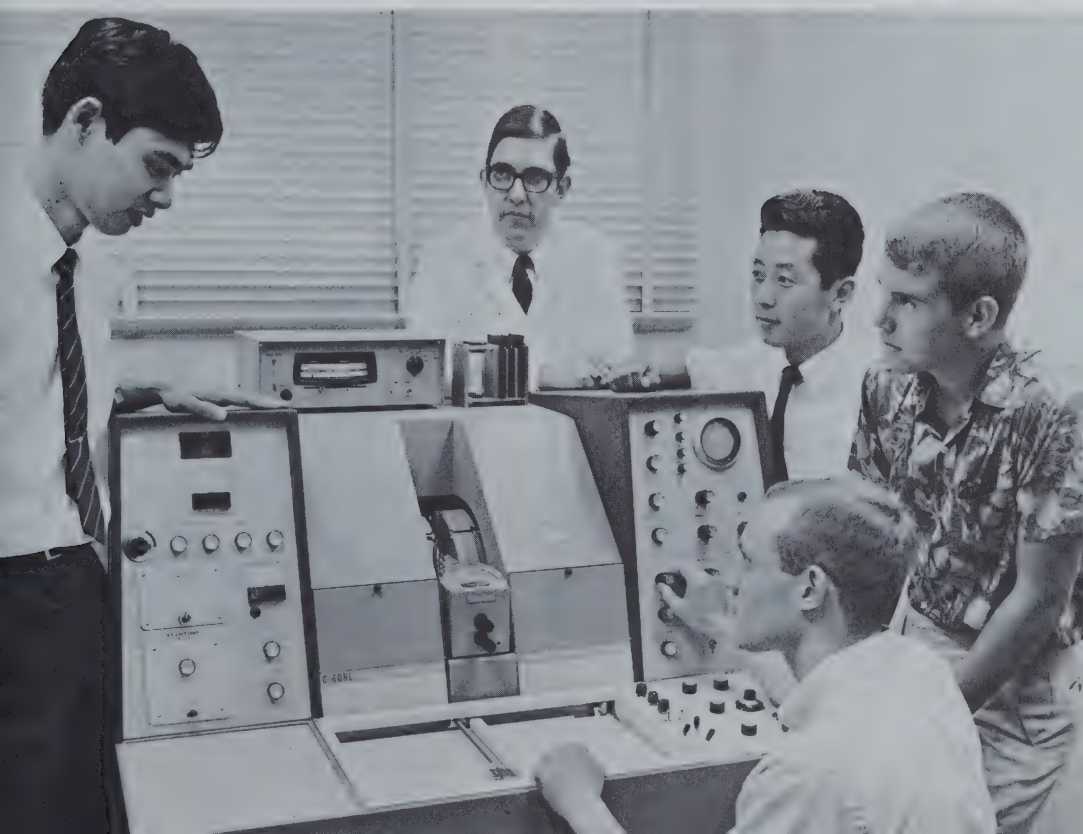
Course offerings and schedules for the summer term are announced in a separate bulletin published each year in April.

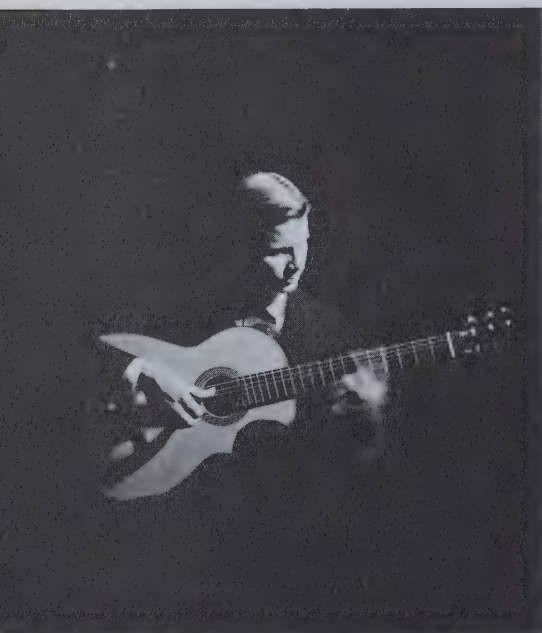
Any undergraduate course for which fewer than ten students are enrolled at the beginning of a term may be withdrawn.



MUSIC - SPEECH CENTER







THE COLLEGE SCHOLAR PROGRAM

COLLEGE SCHOLAR COUNCIL

MR. FREEDMAN, *Chairman (of the Department of Mathematics)*
PROFESSOR RYF *(of the Department of English and Comparative Literature)*
PROFESSOR BOLLMAN *(of the Department of Physics)*
PROFESSOR COLE *(of the Department of Psychology)*
PROFESSOR OWEN *(of the Department of English
and Comparative Literature)*
ASSOCIATE PROFESSOR SEGALL *(of the Department of Physics)*
ASSOCIATE PROFESSOR WINTER *(Chairman, History of Civilization)*
ASSISTANT PROFESSOR LAUTER *(of the Department of Philosophy)*
MR. HUMPHREY *(of the Department of Economics)*

A student who is selected to participate in the College Scholar Program is free after his freshman year to pursue, with the aid of an adviser, an individual plan of study for the three remaining undergraduate years. Between approximately ten and twenty students are chosen each year for this program, which includes a breadth or depth of study not available in a more conventional curriculum. The adviser, who is chosen by mutual consent and can be changed each year, is from the student's major department or from the College Scholar Council if the student has no declared major at the time. The plan of study includes the following provisions:

(1) No specific all-college requirements will be demanded after the freshman year, but the spirit or essence of these requirements must be met by either regular courses, credit by examination, or independent study.

(2) Each student in this program is expected to complete a regular major in his chosen field, with comprehensive examinations completed during the senior year.

(3) Over the three-year period, it is expected that the student's plans will include a reasonable representation of regular courses, credit by examination, and independent study. Pass/Fail, rather than letter grades, may be received by obtaining the approval of the instructor in a course. A particularly heavy emphasis on independent study will be acceptable if a sufficiently strong justification is presented. Auditing all or part of any course is per-

THE COLLEGE SCHOLAR PROGRAM

mitted, including courses taken as credit by examination. Permission of the instructor is always required.

(4) A thesis must be completed once during the program. The thesis may be done as part of a departmental honors program or in any other appropriate manner. The word "thesis" is meant to include the usual thesis as well as creative works such as productions, exhibitions and literary works, and experimental research.

(5) The yearly individual plan must include the methods of evaluation such as grades, short papers, long papers, thesis, productions, exhibitions, and the consent of the individual faculty supervisors responsible for the evaluation.

(6) Participation in International Studies is compatible with this program.

(7) The normal four-year residence is expected, and the tuition charge will be the same as for a regular full-time student. There will be no additional tuition charge for any of the methods of study such as regular course, credit by examination, or independent study.

(8) In the event that a student leaves the program he will have to resume a conventional pattern of courses and general college requirements. He will have to meet the college requirements in the same manner that a transfer student does. To that end, the College Scholar Council will make a recommendation to the Registrar about the evaluation of the work to date. The Registrar will make the final determination of the general college requirements which remain to be met. It is expected that a student in good standing will have no difficulty in completing a conventional program within the usual four years.

Students who are interested in this program should consult the chairman of the College Scholar Council.

DEPARTMENTAL HONORS

The nature of these programs varies from department to department. They may require an examination on a special reading list, an honors thesis, a series of departmental seminars and independent research projects, or any combination of these. Departmental Honors Programs are presently available in the Departments of Biology, Chemistry, Economics, English and Comparative Literature, Languages and Linguistics, History, Music, Physics, Political Science, Psychology, Sociology and Anthropology, and Speech and Drama. An Honors Program is offered also for students who choose the interdepartmental majors of American Studies or Diplomacy and World Affairs. Interested students should consult the chairman of the department concerned for details.

INDEPENDENT STUDY

Independent study has two objectives: (1) to provide greater flexibility and freedom of choice within the curriculum by allowing a student to select for study in depth a subject of particular interest to him; and (2) to increase the student's sense of involvement in and responsibility for his own education by providing an opportunity for independent reading and research under minimal supervision.

To participate, a student may after the freshman year enroll in three Independent Study courses, provided not more than one such course is taken in any one term. He would register in sequence for Independent Study 1, Independent Study 2, or Independent Study 3.

A student may request any faculty member to supervise his Independent Study project, which must not duplicate regular course offerings. The faculty member with whom the student wishes to organize a study program must give consent to the student and meet with him at least twice during the term to discuss progress. It is understood that the burden of responsibility for learning will be on the student. It is not a tutorial program. In general, it is expected that this work will be completed within the ten-week period as in other courses.

A short title descriptive of the student's work will appear on his transcript, and the courses will provide regular credit toward graduation. The nature of the examination is left to the instructor. Testing can be on the basis of a thesis or a project rather than by formal examination. With the consent of the instructor, the student has the option of taking the course for a grade or Pass/Fail.

Subject to a plan of faculty supervision a student may be granted credit of one course for summer independent study either within the United States or in any other country.

CREDIT BY EXAMINATION

In order to stimulate a maximum amount of effort and progress in students of high scholastic achievement and capacity for self-directed study, the faculty provides an opportunity to pass by examination many of the courses offered within the curriculum. It is recognized that not all courses nor all subject matter fields lend themselves equally to such an approach. Students seeking to take specified courses through examination are required to consult with departments and instructors for information as to content and coverage.

Credit by examination may only be undertaken by consent of the instructor in the course. In courses where multiple sections are scheduled during a term or in different terms, the approval of the departmental chairman is also required. Students seeking Credit by Examination should secure the necessary petition forms from the Registrar.

A student may take one course by examination in any term either as a substitute for a third course or in addition to a normal load of three courses, which if passed would count toward the total number of courses required for graduation, provided the following eligibility standards are met:

(1) The student must have received no grade lower than a B in the two previous terms at Occidental.

(2) Preparation for the examination must be undertaken by the student independently and individually, as directed by the instructor involved, and the student will not be allowed to prepare for the examination by class attendance as an auditor in the regular course.

(3) A student may not apply for Credit by Examination in a course for which he was previously enrolled for all or part of a term, or in a course which he had audited in a previous term.

(4) After a date is set for the examination, the student cannot be excused from taking the examination at that time except for reasons of health or grave emergency. Failure to take the examination will result in a recorded grade of failure. With the consent of the instructor, this grade may be recorded on a Pass/Fail basis.

(5) A grade in course must be submitted to the Registrar for recording as Credit by Examination, which becomes part of the student's permanent record.

CREDIT BY EXAMINATION

(6) A fee for Credit by Examination must be paid at the time of filing the petition. In a term when the student is enrolled for two courses the fee will be waived. See page 172 for schedule of fees.

COURSE EXEMPTION BY EXAMINATION

In addition to the provision for receiving course credit by examination, it is possible for a student to take a course by examination, with consent of the instructor, without course credit, which will be entered on his permanent record as a fulfillment of a general college requirement or course prerequisite. The instructor has the privilege of recording a grade of Pass/Fail rather than a letter grade. A nominal fee of \$3.00 is charged.

PASS/FAIL

An Independent Study course may be taken on a Pass/Fail basis with the consent of the instructor.

In addition to enrollment in Independent Study, a student may take one course per term in the senior year outside his major, and not in a course taken to meet general graduation requirements, on a Pass/Fail basis, subject to approval of his adviser and of the instructors in courses so chosen. Decision to elect a course on this basis must be made not later than registration day of the term in which the course is offered and may not subsequently be changed.

The privilege of taking one elective course per term outside the major also applies to the junior year, under the following additional conditions: (a) that this option apply only to students with declared majors; (b) that students who change their major and who have taken a course on Pass/Fail which is required for their new major be required to take an examination in that course for a grade. Inasmuch as graduate schools interpret Pass/Fail in a variety of ways, students should be alert to this fact.

Mathematics computer courses (numbered X1-5) and Physical Education activity courses are graded only on a Pass/Fail basis. Language conversation courses (numbered X3) are open to non-Languages majors on Pass/Fail.

ADVANCED PLACEMENT AND CREDIT

Freshmen may be granted credit at the time of entrance for subjects in which they have completed College Entrance Examination Board Advanced Placement examinations with scores of 5, 4 or 3, this credit and placement resulting therefrom to be subject to review by departments concerned. An entering student offering an Advanced Placement examination with a score of 5 will be given two Occidental course credits toward the degree, and a student offering an Advanced Placement examination with a score of 3 or 4 will be given one course credit toward the degree. Such credit may either count as part of the thirty-five courses required as a minimum for the Bachelor of Arts degree or may be in addition to the maximum of thirty-six courses at Occidental.

A student with unusual preparation may have the option of satisfying History of Civilization 4, 5 or 6 by alternate means upon submission of Advanced Placement scores of 3, 4, or 5 in English and History (American and European).

A student submitting Advanced Placement scores of 3, 4, or 5 in Biology, Chemistry, or Physics may by request satisfy Natural Science 3, Natural Science 2 in Chemistry, and Natural Science 1 respectively.

The College will provide an Advanced Placement examination whenever possible for the entering student who has developed competence in a subject and wants to receive course credit but who has not had the opportunity to take the Advanced Placement examination. If no Advanced Placement examination is applicable, departmental certification may be employed as an alternative for establishing whether or not course credit toward graduation is to be allowed.

An applicant who has completed courses at an accredited college prior to graduation from high school also may request consideration for appropriate recognition in the way of credit or placement.

Credit earned either through Advanced Placement examinations or through college courses may make it possible to enter advanced courses and thereby provide a wider opportunity for choice of electives in the undergraduate program. In general, each student will be expected to carry a normal load during the period of his attendance at Occidental College.

INTERNATIONAL STUDY PROGRAMS

ASSOCIATE PROFESSOR FREY (*of the Department of Languages and Linguistics*), *Chairman of the Committee on International Studies*

COMMITTEE MEMBERS

MISS AYARS (*Registrar*)

MR. COLLINS (*Dean of Students*)

ASSOCIATE PROFESSOR ELLIOTT (*of the Department of Physics*)

ASSISTANT PROFESSOR HARRISON (*of the Department of English and Comparative Literature*)

MR. HINGOT (*of the Department of Languages and Linguistics*)

PROFESSOR JENNINGS (*of the Department of Psychology*)

ASSOCIATE PROFESSOR LARE (*of the Department of Political Science*)

PROFESSOR MILL (*of the Chevalier Program and the Department of Political Science*)

ASSISTANT PROFESSOR NEBLETT (*of the Department of Philosophy*)

PROFESSOR PERKINS (*of the Department of Art*)

MISS REA (*of the Department of Languages and Linguistics*)

Occidental College recognizes the unique value of study abroad and therefore encourages its students to consider a number of opportunities for international studies which do not interrupt their affiliation with the College.

INTERNATIONAL STUDIES

Through the process of competitive selection, juniors and first-term seniors may pursue independent research or creative work anywhere in the world outside the United States, provided such work either fits into the student's major program or can be arranged within his elective courses. Such research or creative work is performed during the summer between the student's junior and senior years plus one adjacent term, either fall or spring.

Each year in April all sophomores and first-term juniors, majoring in any field offered, are invited to compete for a limited number of international fellowships for the following year. The amount of these fellowships will be determined by the Director of Financial Aid to Students. The student will register for International Studies 101 and 102 and will be awarded two

INTERNATIONAL STUDY PROGRAMS

course credits for research or creative work completed successfully while on an international fellowship; upon approval of the student's major department, Departmental Honors 199 may be substituted for International Studies 102. Both research and creative projects must include some form of written paper to be turned in to the project supervisor upon return from abroad; monthly progress reports must be made as well while the student is away. Fellowship holders will be expected to devote their full time abroad to work on their project.

Credit for International Studies 102 (or Honors 199, if done under the I.S. program) will be granted only upon submission of a Library Filing Form certifying deposit of the required paper in the Special Projects collection of the Main Library. All work in connection with an individual project must be completed within the first term of the student's return to Occidental College: Fall Term: November 15, Winter Term: February 25.

All Fellowship holders are expected to live in Norris International and Language Center upon their return to Occidental College in order that they may share their experiences with those interested.

Preliminary applications of sophomores and first-term juniors for international fellowships must be filed with the Chairman of the Committee on International Studies by May 1. Final applications for those candidates who successfully pass the first screening will be due on October 10. Fellowship awards will be announced at the end of the Fall Term.

Recipients of the fellowships will be expected to fulfill their financial and moral obligation to return to Occidental College at the time planned for them individually. Should they fail to do so, they will be expected to refund the full amount of the fellowships.

Application forms and further information may be obtained from the Chairman of the Committee on International Studies. Students accepted in the program register at Occidental College for the following courses in International Studies:

101. INTERNATIONAL STUDIES I.

<i>Fall</i>	The Staff	Arrange
<i>Spring</i>	The Staff	Arrange

102. INTERNATIONAL STUDIES II.

<i>Fall</i>	The Staff	Arrange
<i>Spring</i>	The Staff	Arrange

OCCIDENTAL IN GERMANY PROGRAM

Starting in September 1969, Occidental College will have its first organized relationship with a European university when approximately ten juniors will be officially enrolled at the *Universitaet des Saarlandes*, Germany, for a full

INTERNATIONAL STUDY PROGRAMS

academic year of study while maintaining their affiliation with Occidental College. Total cost (including transportation and intensive language training in Germany prior to beginning the university program) will be approximately the same as that at the College here. Students receiving financial assistance will have their scholarships continued while studying in Germany.

This program, which offers a total of eight Occidental College course credits, is open to qualified juniors in all disciplines on a competitive basis. Ordinarily a student should have had at least three terms of college German or equivalent before going abroad on this program.

All interested sophomores should file preliminary applications at the Dean of Students' Office by February 5, 1970. Final applications for those candidates who successfully pass the first screening will be due on March 5, 1970. Acceptance to the Occidental in Germany program will be announced at the end of the winter term.

Further information, application forms, and catalogs may be obtained from the Chairman of the Committee on International Studies or from the Dean of Students' Office.

OTHER JUNIOR YEAR ABROAD OPPORTUNITIES

Students may spend part or all of the junior year enrolled in a number of other selected universities or equivalent institutions abroad provided their course of studies is approved in advance by the Committee on International Studies and by the departments in which they wish to establish credit. Information may be obtained from the Chairman of the Committee on International Studies and from the Placement Office.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES PROGRAM

ADVISORY COMMITTEE

PROFESSOR KURTZ (*of the Department of English and Comparative Literature*), Chairman

PROFESSOR REATH (*of the Department of Political Science*)

PROFESSOR ROLLE (*of the Department of History*)

ASSOCIATE PROFESSOR WINTER (*Chairman, History of Civilization*)

ASSISTANT PROFESSOR COHEN (*of the Department of History*)

MR. AXEEN (*Instructor in American Studies and History of Civilization*)

MRS. HEWITT (*Lecturer in American Studies*)

American Studies is a relatively new academic discipline concerned with essential aspects of the American experience, institutions, and character. Curricula, techniques, and objectives of the program differ from institution to institution here and abroad, but the general objective is to understand basic elements of our civilization as seen from a broad interdisciplinary perspective.

The Occidental program consists of courses offered in various departments, which deal with American history, ideas, institutions, styles of expression, and the general culture. These are augmented with independent study and research, three American Studies courses, and a Senior Seminar offered by various members of the American Studies staff. The general perspective is historical, but the focus is upon both contemporary problems and characteristic elements in American past experience that have influenced our culture and character and remain dominant.

MAJOR:

I. Core

A. Eight courses and American Studies 100 and 102, selected in consultation with an adviser from the above committee. These should include work in history, literature, and political science and should be chosen to provide a consecutive historical knowledge of basic American institutions and an integrated view of the American experience. There should be a reasonable representation from departments offering American materials: the fine arts, eco-

AMERICAN STUDIES PROGRAM

nomics, history, the history of ideas, literature, political science, religion, sociology and anthropology, speech and drama.

B. A Reading List: Fifteen books considered essential to an understanding of American culture.

II. Study in depth of a contemporary American problem selected in consultation with the adviser. Such study may be pursued through courses in the curriculum or by independent study.

III. A Comprehensive Examination, ordinarily taken in the fall term of the senior year. This tests the student's knowledge of the American historical and cultural tradition from the colonial period to the present, his command of the materials of the Reading List, and his knowledge of his selected contemporary problem. Success in this examination qualifies him to proceed to the thesis.

IV. Senior Thesis. Ordinarily this will be an intensive examination of, and a report on, a specific aspect of the problem investigated under Section II above. It should be completed by the end of the winter term of the senior year.

V. Senior Seminar. Offered in the spring term for seniors who have completed the thesis, it is essentially a sharing of results of individual research, with defense of theses, etc.

33. AMERICAN STUDIES. AFRO-AMERICAN LITERATURE. An examination of central literary works by representative Afro-American authors, from Jupiter Hammon to LeRoi Jones. A study of the historical, biographical, and imaginative materials which reflect the unique experience of black writers within American culture, from 1761 to the present.

Winter Hewitt 11:05-12:20 p.m.

100. AMERICAN STUDIES. A study of a selected area or topic, which will vary from year to year, such as the Supreme Court and the American Consensus, the Negro in American Culture, American Inventions and Their Effects, Aspects of American Demography. The approach is interdisciplinary; the object, to examine such things as origins, effects, the nature, the contemporary relevance, etc., of the areas examined.

Fall Axeen 8:50-9:50 a.m.

102. AMERICAN STUDIES. A study in depth of some narrowly delimited but influential element in the national life. Research, organization of materials from an interdisciplinary point of view, and formulation of conclusions from within that perspective are emphasized.

Winter Axeen 8:50-9:50 a.m.

190. SENIOR SEMINAR.

Spring Axeen Arrange

CHEVALIER PROGRAM IN DIPLOMACY AND WORLD AFFAIRS

ADVISORY COMMITTEE

PROFESSOR MILL (*Chevalier Professor of Diplomacy and World Affairs*),
Chairman

DEAN RYF

ASSOCIATE PROFESSOR HARING (*of the Department of Economics*)

PROFESSOR KROEBER (*of the Department of History*)

ASSOCIATE PROFESSOR LITTLETON (*of the Department of Sociology and
Anthropology*)

PROFESSOR MCKELVEY (*of the Department of Political Science*)

PROFESSOR OLIVER (*of the Department of English and Comparative
Literature*)

PROFESSOR REATH (*of the Department of Political Science*)

PROFESSOR RODES (*of the Department of History*)

PROFESSOR ROLLE (*of the Department of History*)

The Chevalier interdepartmental major in Diplomacy and World Affairs provides an opportunity for young men and women to prepare for a wide variety of careers in the field of foreign affairs. These careers may include service with the Department of State and the Foreign Service, the United States Information Agency (USIA), the Agency for International Development (AID), and other U.S. Government offices, or may lead to service with the United Nations or one of its affiliated agencies. Students also may wish to prepare themselves for work in international economics or business, or may look forward to graduate study and an academic career.

Recognition is given to the fact that the study and practice of international relations today involves knowledge cutting across several disciplines, particularly in the social sciences but not limited to them. At Occidental, the Departments of Economics, History, Political Science, and Sociology-Anthropology, along with Languages and Linguistics, English and Comparative Literature as well as Religious Studies contribute to the Chevalier Program on an interdepartmental basis.

The Chevalier Program was established in 1957 by Mrs. Stuart Chevalier to honor the memory of her husband, the late Stuart Chevalier, a distinguished lawyer and pioneer leader in behalf of the United Nations, who for

CHEVALIER PROGRAM

nineteen years was a member of the Board of Trustees of Occidental College. The Program has been further strengthened through the contributions of other donors.

MAJOR: (An interdepartmental major in place of a departmental major.) Twelve courses, including Political Science 50 and 110; Economics 1 and 2; History 104; Anthropology 10; two terms of a foreign language at an advanced level (100 courses), or equivalent.

The remaining courses are to be selected, in consultation with assigned advisers, to meet the needs of individual students. Here students are given the opportunity to emphasize a particular field or region. Lists of courses for each emphasis may be obtained from the Chairman of the Program. One of the following choices may be selected:

- A. Political Studies
- B. Economic Studies
- C. Cultural Studies
- D. Regional Studies
 - 1. Asia
 - 2. Latin America
 - 3. Europe
 - 4. Soviet Union
 - 5. Africa

HONORS: Qualified majors may achieve Departmental Honors at graduation through completion of a program including independent research and a senior thesis. Consult the Program Chairman concerning details.

GRADUATE STUDY: A program of study leading to the M.A. degree in Diplomacy and World Affairs is also offered. Interested applicants should consult the chairman for details.

INTERDEPARTMENTAL PROGRAMS

A student may, with the consent of his adviser, pursue a plan of study involving emphases in more than one department in areas other than those listed here as established interdepartmental programs.

POLITICAL AND SOCIAL BEHAVIORAL STUDIES

PROFESSOR COLE (*of the Department of Psychology*), Chairman
PROFESSOR SHELDON (*of the Department of Sociology and Anthropology*)
MR. HENRY (*of the Department of Sociology and Anthropology*)
MRS. JAQUETTE (*of the Department of Political Science*)

Political behavior is but one kind—a most interesting kind—of social life. As men come together and relate to one another, recurrent patterns of behavior develop. Our understanding of this behavior depends on the collaborative intellectual efforts of the more advanced social sciences. In short, the study of political and social behavior is a collective enterprise and introduces the student to the variety and vitality of the field, by interlocking the conceptual equipment of four disciplines—Anthropology, Political Science, Psychology, and Sociology—to the end of increasing man's ability to understand, to predict, and to achieve a basis for control of behavior.

In such an approach, the emphasis is less upon history as a source of understanding and more upon the observation of man's behavior under planned and controlled laboratory and field conditions. Students are exposed, first, to constructs and hypotheses concerning human behavior; second, to data which may confirm, invalidate, or expand the original hypothesis; and, finally, to analysis of data and the validation, invalidation, or expansion of the hypothesis.

Students majoring in either Political Science, Psychology, or Sociology-Anthropology may design their programs so as to secure an emphasis in Political and Social Behavioral Studies. The emphasis involves:

POLITICAL AND SOCIAL BEHAVIORAL STUDIES

- a thorough study of the research findings to date in the area of political and social behavior.
- acquiring competence in the statistical and laboratory methods for the study of small groups and interpersonal interaction.
- sharing in interdisciplinary workshop-seminars.
- participation in simulation studies and political gaming exercises.
- specific training in the research process by completing a piece of original individual research in the area of political and social behavior.

This programmatic emphasis is designed for students who plan to enter graduate work in the behavioral approach to political science, or in social psychology, or in sociology. (It will also be attractive to any student who is particularly interested in an experimental approach to human behavior in the political or social spheres.)

Students are invited to study the catalog listings of the three collaborating departments—Political Science (page 134), Psychology (page 140), and Sociology-Anthropology (page 147)—for detailed statements of the course requirements which will fulfill a major in those departments with a specialization in Political and Social Behavioral Studies.

URBAN STUDIES

ASSOCIATE PROFESSOR LARE (*of the Department of Political Science*),
Chairman

PROFESSOR COLE (*of the Department of Psychology*)

PROFESSOR SHELDON (*of the Department of Sociology and Anthropology*)

ASSOCIATE PROFESSOR SHENFELD (*of the Department of Psychology*)

ASSOCIATE PROFESSOR WINTER (*Chairman, History of Civilization*)

ASSISTANT PROFESSOR COHEN (*of the Department of History*)

ASSISTANT PROFESSOR CUMMINGS (*of the Department of Geology*)

ASSISTANT PROFESSOR SHAFFER (*of the Department of Economics*)

MR. GRIGSBY (*Instructor in Urban Studies*)

MR. HENRY (*of the Department of Sociology and Anthropology*)

In the decades since World War II the intellectual community has increasingly recognized the need to involve America's brightest young people in the multiple challenges facing our urban centers. The problems that comprise and compound the urban crisis — racism in education, employment, and social relations, segregated housing, blighted buildings, polluted air, and inadequate transportation systems, to name only a few—will not be solved in the next one or two decades and perhaps not in the next one or two generations. The plight of America's cities will be a matter of mounting concern to thoughtful citizens until at least the end of the present century.

The relationship of higher education to urban society and its needs is among the special concerns of the urban studies program. Occidental College believes it has an obligation to contribute to the increasing number of thoughtful, well-trained men and women who will find dynamic careers making and implementing the policies needed to bring urban America through its current crisis. The curriculum in Urban Studies attempts to sensitize undergraduates to the complexities and ambiguities which permeate urban life in America. An understanding of the varying perspectives toward urban society held by commercial, governmental, academic, ethnic, and other significant groups is a necessary foundation for students wishing to pursue careers in educational development, city planning and urban design, urban management, social welfare and correctional administration, or law enforcement and the administration of justice. Special attention is given to the ways in which the perspectives of interested groups and individuals

determine the direction and character of all efforts to improve the quality of life in urban America.

Consistent with its emphasis on undergraduate instruction in the liberal arts and sciences, Occidental College has developed a series of courses, research seminars, and on-site investigations through which the student interested in urban problems may bring the intellectual tools and insights of political science, psychology, economics, sociology and anthropology to bear on the dilemmas facing the contemporary metropolitan area. Students are invited to study the catalog listings of the three collaborating departments — Political Science (page 134), Psychology (page 140), and Sociology-Anthropology (page 147) — for detailed statements of the course requirements which will fulfill a major in those departments with a specialization in Urban Studies.

A graduate program leading to a Master of Arts in Urban Studies is offered in cooperation with the Coro Foundation. Coro interns who are accepted in the program may receive a maximum of three course credits for their nine-month internship and may obtain the remaining credits needed for the degree in the summer following the internship or thereafter with the approval of the Graduate Office. The courses available in this special program are described in the Summer Term bulletin.

The basic interdisciplinary courses in Urban Studies for 1969-70 are:

100-200. ETHNIC COMMUNITIES IN THE METROPOLIS. Patterns of ethnic migration into urban centers; the emergence of social and political institutions in minority communities; the objectives of selected contemporary ethnic organizations with an emphasis on those in the metropolitan areas of California.

Winter Grigsby 10:00-11:00 a.m.

110-210. PROBLEMS IN URBAN EDUCATION. Examination of alternative purposes served by educational institutions; analysis of centralized and decentralized school systems; the controversies surrounding bussing, compensatory education, and enrichment programs; survey of research related to curriculum and textbook development.

Fall Grigsby 10:00-11:00 a.m.

130-230. PROBLEMS IN URBAN LAW ENFORCEMENT. Analysis of the assumptions underlying the development of law enforcement in the United States; examination of prevailing policies and practices in urban police agencies.

Spring Grigsby 10:00-11:00 a.m.

SOVIET STUDIES

ASSISTANT PROFESSOR CALDWELL (*of the Department of Political Science*),
Chairman

PROFESSOR MILL (*of the Department of Political Science*)

ASSISTANT PROFESSOR ALKIRE (*of the Department of Languages and
Linguistics*)

MR. HUMPHREY (*of the Department of Economics*)

Foreign Area Study provides an interesting and rewarding way to organize learning in the social sciences and humanities. It challenges a student to immerse himself in the study of an unfamiliar culture, which becomes a focus to which he can refer his discovery of relevant generalizations about the broader issues of social and humanist knowledge. This kind of study provides two important satisfactions: (1) Students find it exciting simply to acquire an understanding of human experiences for which they do not have an intuitive sensitivity, and (2) Students are challenged by the opportunity to confront the conceptual framework of historical, cultural, and political study within the context of concrete data, which by its sheer volume and by its remoteness from their experience stretches their minds.

Although a number of graduate schools have for several years recognized "foreign area study" as a legitimate and exciting form of academic experience, undergraduate colleges and universities have been slower to discover ways to make this kind of approach to learning available to their students. Starting in the fall of 1968 Occidental began an experiment designed to create a "Soviet Area Studies" experience within its curriculum.

The Soviet Studies emphasis, which may be elected within the context of the Political Science or Diplomacy and World Affairs majors, constitutes an attempt throughout to achieve a multi-disciplinary approach to learning about the Soviet experience. Not only by the distribution of course requirements for either major emphasis, but within the context of the Soviet core courses students are encouraged to examine the Soviet Union with reference to its political life, its diplomacy, its cultural developments, its historical evolution, and its enduring problems of economic organization.

AREA STUDIES RESEARCH CENTER

One of the tools which Occidental is in the process of developing for the study of contemporary problems in world politics is the Area Studies Research Center. In this facility are files on contemporary politics, foreign policies, cultural affairs, and economic affairs from a selected number of geographic areas. The purpose is to provide a quick reference for students to the large volume of information being generated about the world in which this country must shape its own policies.

PREMEDICAL AND PREDENTAL PROGRAMS

ASSOCIATE PROFESSOR McANALLY (*of the Department of Chemistry*),
Chairman of the Premedical Advisory Committee

COMMITTEE MEMBERS

PROFESSOR COLE (*of the Department of Psychology*)
ASSOCIATE PROFESSOR ELLIOTT (*of the Department of Physics*)
PROFESSOR LAMBERT (*of the Department of Chemistry*)
ASSOCIATE PROFESSOR WELLS (*of the Department of Biology*)

It is recognized by leading medical educators that a genuine liberal arts curriculum provides the most suitable undergraduate premedical background. Completion of the courses required of all students at Occidental College provides desired breadth of training and intellectual skills.

In addition, a student planning to enter medicine or dentistry must take, beginning if possible in the freshman year, the series of courses which will qualify him for admission to the professional school of his preference. Specific course requirements of the majority of medical and dental schools may be met by completion of four courses in Biology, five in Chemistry, two in Mathematics, and two in Physics. The following list includes those which appear most frequently as required: Biology 1 and 125; Chemistry 1, 2, 21, 51, and 52; Mathematics 21; Physics 21 and 22. The less frequently required but often strongly recommended include Biology 105 and 154, and Mathematics 22. It must be recognized that these are in some instances minimum requirements, and the student should investigate the particular programs recommended by the schools to which he intends to apply. Students are invited to discuss requirements of specific medical and dental schools with the Chairman of the Premedical Advisory Committee.

The preprofessional courses are available within the framework of a number of academic majors at Occidental College. The Chairman of the Premedical Advisory Committee will assist the student in selection of a major department offering a program consistent with his interests and professional goals.

Full information concerning any aspect of the programs for premedical and predental students may be obtained from the Registrar or from the Chairman of the Premedical Advisory Committee.

COMBINED PLAN PROGRAM IN LIBERAL ARTS AND ENGINEERING

ADVISER FOR PHYSICAL SEQUENCE

ASSOCIATE PROFESSOR HUDSON (*of the Department of Physics*)

ADVISER FOR CHEMICAL SEQUENCE

ASSOCIATE PROFESSOR CLELAND (*of the Department of Chemistry*)

Occidental College cooperates with the School of Engineering of Columbia University and with the California Institute of Technology in two five-year programs of engineering education based on a broad foundation of liberal arts.

These Combined Plans provide the student with an excellent liberal arts program plus assured entrance into either of two of the outstanding engineering schools in the nation. The programs are designed specifically for the superior student.

The curriculum offers considerable freedom of choice of an eventual major. If, at the end of the first two years, a student should find his interest developing in a field outside science or technology, he may still choose any nonscience major in the College and graduate after an additional two years of course work. Similar options also exist through the junior year for choosing majors in mathematics or most other sciences without loss of time. Thus, in contrast to conventional engineering programs, a student entering the Combined Plan does not commit himself exclusively to an engineering major in the freshman year. This flexibility is particularly advantageous to the capable student whose abilities and interests span many fields.

The Combined Plan Programs provide for three years of work in the liberal arts and sciences at Occidental College followed by two years of regular session work at the California Institute of Technology, or the School of Engineering of Columbia University. The five-year combined program leads to the degree of Bachelor of Arts in the Combined Plan from Occidental College and the degree of Bachelor of Science in the selected field of engineering from either Columbia University or the California Institute of Technology. It is necessary that students entering the program shall have completed at least two years of high school algebra and one semester of trigonometry. Three years of a foreign language are desirable though not

COMBINED PLAN PROGRAM

essential. German or Russian is recommended for the Physical sequence with German preferred for the Chemical sequence.

Students in the program are guaranteed entrance into the engineering schools upon recommendation of the College after satisfactorily completing the three years of study at Occidental. Recommendation usually is given to those students who maintain a B average, or higher, in science and mathematics and an overall B average, or higher, in all courses. Students wishing to enter this program should apply directly to Occidental College.

COURSE REQUIREMENTS FOR THE COMBINED PLAN

The program of studies for the first three years consists of all of the required courses leading to the degree of Bachelor of Arts as outlined on pages 19-22 and in addition certain courses listed below under Major.

MAJOR: *For the Physical Sequence* (preparing for entrance into the California Institute of Technology for additional work toward the degree of Bachelor of Science in Engineering, or into the School of Engineering of Columbia University for additional work toward the degree of Bachelor of Science in Civil, Electrical, Industrial, Mechanical, Metallurgical, Mineral or Mining Engineering, or a selection of majors in Applied Science including Bioengineering and Applied Biology, Aerospace Science, Management Engineering, and many others): Chemistry 11, 12; Mathematics 41, 42, 43, 61, 62, 63; Physics 11, 12, 13, 110; and additional courses chosen in consultation with the major adviser.

MAJOR: *For the Chemical Sequence* (preparing for entrance into either engineering school for additional work toward the degree of Bachelor of Science in Chemical Engineering): Chemistry 11, 12; Mathematics 41, 42, 43, 61, 62, 63; Physics 11, 12, 13, 110; and additional courses chosen in consultation with the major adviser.

The Occidental College comprehensive examination is waived for Combined Plan students.

Full information concerning the details of the five-year programs should be obtained from the Dean of Admission or the Registrar, Occidental College.

AEROSPACE STUDIES

LT. COL. CRECELIUS, *Professor*

CAPTAIN ASKEW, *Assistant Professor*

Non-Commissioned Officers: TECHNICAL SERGEANT ALBERT, STAFF SERGEANT JOHNSON

The Occidental College unit of the Air Force Reserve Officer Training Corps (AFROTC) was established on the campus at the beginning of the 1951-52 academic year.

The two-year Air Force ROTC program is a 180-hour course of instruction taken during the cadet's junior and senior years. During the summer between their sophomore and junior years, qualified male students attend a six-week training course which is conducted at one of the various Air Force bases in the continental United States. Once they successfully complete this camp they are eligible to apply for enrollment in the professional officer course of the AFROTC program. During their junior and senior years they will attend classes in Aerospace Studies three hours per week.

The educational philosophy and subject matter of the AFROTC program are directed toward the preparation of students for management positions in a rapidly changing Air Force organization. Students who successfully complete baccalaureate degree requirements and the aerospace studies will be commissioned Second Lieutenants in the United States Air Force in positions for which their education and training have qualified them.

Textbooks and other necessary equipment will be furnished by the Air Force for use of students in the Aerospace Studies Department and while at summer training. In addition, two-year AFROTC cadets receive \$50 per month subsistence allowance during their junior and senior years. Pay of \$170 per month and reimbursement for travel is paid for the summer training.

Senior cadets, if physically qualified, may enroll in the Flight Training program. This training consists of 36½ hours flying training at government expense. Successful completion qualifies the student for a private pilot's license and for Air Force pilot training.

Students are encouraged to consult the Aerospace Studies Department for further information.

AEROSPACE STUDIES

131. FIRST YEAR ADVANCED—GROWTH AND DEVELOPMENT OF AEROSPACE POWER. Survey of the nature of military conflict; development of aerospace power in the United States: mission and organization of the Department of Defense. Air Force concepts, doctrine, and employment of aerospace power. The future of manned aircraft.

United States space programs, administrative control, vehicles, systems and problems in space exploration. Future development of United States aerospace projects. Technical barriers, cost factors, and economic implications of space exploration. *See footnote below.*

Each Term Askew Arrange

141. SECOND YEAR ADVANCED—THE PROFESSIONAL OFFICER. A study of Air Force leadership at the junior officer level, including its theoretical, professional, and legal aspects. Analysis of leadership principles and their practical application to leadership situations through group discussions, case studies, and role playing. Review of the military justice system.

Study of the functions of the Air Force manager including planning, organizing, directing, controlling, and coordinating. Introduction to the management tools, practices, controls, and techniques used by successful Air Force managers. Problem-situation exercises, oral and written reports, and field trips. *See footnote below.*

Each Term Crecelius Arrange

NOTE: Aerospace Studies 131 and 141 are continuous throughout the year. A student may enroll for credit of one course in any term, but the final grade is withheld until the entire year's work has been completed.

ART

PROFESSOR HANSEN, *Chairman*

PROFESSOR PERKINS

ASSISTANT PROFESSOR EVERETT

MRS. WILLIAMS, *Instructor*

MR. ELDER, *Visiting Instructor*

By Special Appointment: MR. BAKER, MR. DALTON, MR. ROSENTHAL, MR. SHIDA

The purpose of the Department of Art is to develop creative ability and to stimulate an understanding and appreciation of the fine arts as essential elements in a liberal arts education. It provides two approaches to art—the historical and the creative. Within a flexible framework that permits individual development, the curriculum meets the needs of three general types of students: those who intend to make art their profession after the completion of their college work, those who wish to practice art as an avocational pursuit, and those who desire an intelligent knowledge and understanding of art as a part of their cultural life. The importance of design, visual sensitivity, and artistic manual skill to such diverse fields as drama, medicine, engineering, architecture, and urban planning is generally recognized. The curriculum prepares the student for advanced study in art history and criticism, museum work, painting, sculpture, printmaking, and in the various fields of applied design.

MAJOR: Twelve courses from this department chosen in consultation with the major adviser. Two options are offered:

Concentration in the History of Art: Art 1 or Art 6, any three additional studio courses, Art 106 or 107, Art 120 or 121, and six additional art history or theory courses.

Concentration in Creative Art: Art 1 and Art 6, any six additional studio courses, any four art history or theory courses.

Comprehensive examinations are based on knowledge of the entire field of art history and upon creative fields chosen by the student. For further information, consult the major adviser.

1. BASIC DRAWING. Exploration of form relationships in a variety of black-and-white media.

Winter Hansen 1:15-3:20 p.m.

ART

2. DRAWING AND PAINTING I. Elementary problems in a variety of black-and-white and color media. No prior experience in drawing and painting is required.

<i>Fall</i>	Hansen	3:25-5:30 p.m.
<i>Winter</i>	Hansen	3:25-5:30 p.m.
<i>Spring</i>	Hansen	1:15-3:20 p.m.

3. SCULPTURE I. Elementary problems in modeling, carving, and construction. A variety of media, including clay, plaster, stone, and metal. No prior experience in sculpture is required.

<i>Fall</i>	Elder	3:25-5:30 p.m.
<i>Spring</i>	Baker	3:25-5:30 p.m.

4. LIFE STUDY. Drawing and painting from the human figure, with comparative study of animal and plant structure provided through use of the vivarium and the Los Angeles Zoo.

<i>Fall</i>	Hansen	1:15-3:20 p.m.
<i>Spring</i>	Hansen	3:25-5:30 p.m.

6. BASIC COLOR. Exploration of color relationships.

<i>Fall</i>	Shida	3:25-5:30 p.m.
<i>Spring</i>	Dalton	3:25-5:30 p.m.

13. THREE-DIMENSIONAL DESIGN. Elements and principles of three-dimensional form with emphasis on structure, composition, and the expressive potential of materials. Projects in mechanical structure, motion, solid form, and light. No prior experience in design is required.

<i>Winter</i>	Elder	3:25-5:30 p.m.
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55. GRAPHICS I. Introduction to printmaking: collography, linoleum and woodcut, serigraphy, etching, drypoint, engraving, and lithography. *Prerequisite: Two of the following courses: Art 1, 2, 4, 6.*

<i>Fall</i>	Rosenthal	3:25-5:30 p.m.
<i>Spring</i>	Rosenthal	3:25-5:30 p.m.

56. DESIGN I. Introduction to the principles and application of design through individual projects. *Prerequisite: Two of the following courses: Art 1, 2, 6, 13.*

<i>Winter</i>	Shida	1:15-3:20 p.m.
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75. ART THEORY AND CRITICISM. Discussion of form, content, and subject matter in the historical development of styles in art, and the bases of evaluation.

<i>Fall</i>	Perkins	8:50-9:50 a.m.
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100. HISTORY OF WESTERN ART I. A study of the arts of the Near East and Europe during the ancient and medieval eras.

<i>Fall</i>	Everett	10:00-11:00 a.m.
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101. HISTORY OF WESTERN ART II. A study of the arts of the Western world from the Renaissance to the present.

<i>Winter</i>	Perkins	8:50-9:50 a.m.
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102. ANCIENT ART. The art of Egypt, Mesopotamia, Greece, and Rome. *Given in alternate years.*

Not given in 1969-70.

103. MEDIEVAL ART. Early Christian, Byzantine, Barbarian, Carolingian, Romanesque, and Gothic art. *Given in alternate years.*

<i>Winter</i>	Everett	11:05 a.m.-12:20 p.m.
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104. ART OF THE RENAISSANCE. A study of the art of Italy and Northern Europe from the fourteenth through the sixteenth century. *Given in alternate years.*
Not given in 1969-70.

105. BAROQUE AND ROCOCO ART. A study of the art of Western Europe in the seventeenth and eighteenth centuries. *Given in alternate years.*
 Spring Everett 1:15-2:15 p.m.

106-206. THE ART OF THE NINETEENTH CENTURY. A study of developments in the art of Europe and America during the nineteenth century.
 Fall Perkins 1:15-2:15 p.m.

107-207. THE ART OF THE TWENTIETH CENTURY. A study of developments in the art of Europe and America from the turn of the century to the present.
 Spring Perkins 8:50-9:50 a.m.

118. ORIENTAL ART I. Prehistoric to c. 800 A.D. The religious art of India, China, and Japan. Emphasis on indigenous philosophical and intellectual principles, and environmental factors.
 Fall Williams 11:05 a.m.-12:20 p.m.

119. ORIENTAL ART II. From 800 to 1600 A.D. The art of India, China, and Japan. Emphasis on indigenous qualities, stylistic evolution, and cultural context.
 Winter Williams 10:00-11:00 a.m.

120. ORIENTAL ART III. From 1600 to the present. The art of India, China, and Japan. Emphasis on indigenous qualities, stylistic evolution, and cultural context. *Given in alternate years.*
 Spring Williams 11:05 a.m.-12:20 p.m.

121. PROSEMINAR IN WESTERN ART. Individual projects in selected areas of the history of Western art. *Prerequisite: Junior standing and permission of instructor.*
 Spring Everett Arrange

122. PROSEMINAR IN ORIENTAL ART. Individual projects in selected areas of the history of Asian art. *Prerequisite: Art 118, 119, or 120, or permission of instructor.* *Given in alternate years.*
Not given in 1969-70.

128. ART IN THE EAST AND WEST. A comparative study of the stylistic developments in the East and West, with emphasis on the major ideas expressed in art. *Prerequisite: One course in Oriental art and one course in Western art. Given in alternate years.*
 Winter Williams 1:15-2:15 p.m.

129. COMPARATIVE ETHNIC ART. A comparative study of the style and function of art of the peoples of Africa and Oceania. *Given in alternate years.*
Not given in 1969-70.

134. MATERIALS AND METHODS OF TEACHING ART IN ELEMENTARY SCHOOLS. Basic art experiences in drawing, color, and design and their relationship to the teaching of art in the elementary school. (*Identical with Education 134.*)
 Winter Dalton 3:30-5:30 p.m.

ART

152. DRAWING AND PAINTING II. Problems in a variety of black-and-white and color media. Emphasis on individual problems and experiments in traditional and new synthetic media. *Prerequisite: Art 2.*

Fall	Hansen	3:25-5:30 p.m.
Winter	Hansen	3:25-5:30 p.m.
Spring	Hansen	1:15-3:20 p.m.

153. SCULPTURE II. Continued study of modeling, carving, and construction. Individual problems in a variety of media, including clay, plaster, wood, stone, and metal. *Prerequisite: Art 3.*

Fall	Elder	3:25-5:30 p.m.
Spring	Baker	3:25-5:30 p.m.

154. LIFE STUDY II. A continuation of drawing and painting from the human figure, with comparative study of animal and plant structure. *Prerequisite: Art 4.*

Fall	Hansen	1:15-3:20 p.m.
Spring	Hansen	3:25-5:30 p.m.

155. GRAPHICS II. Continued study of lithography, serigraphy, woodcut, etching, drypoint, and engraving. *Prerequisite: Art 55.*

Fall	Rosenthal	3:25-5:30 p.m.
Spring	Rosenthal	3:25-5:30 p.m.

156. DESIGN II. Continued study, through individual projects, of the principles and application of design. *Prerequisite: Art 56.*

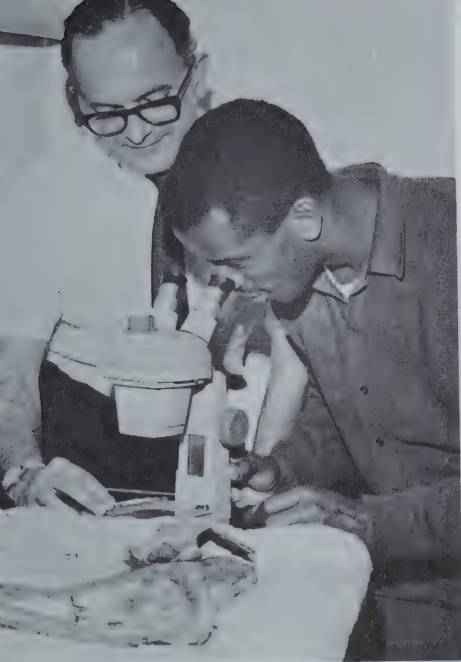
Winter	Shida	1:15-3:20 p.m.
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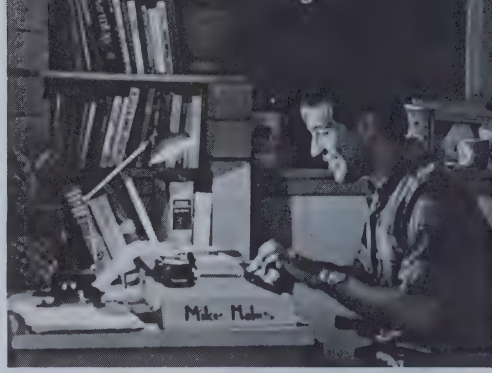
197-297. SPECIAL TOPICS. Advanced study in creative art, or in the theory or history of art. Individual projects developed in consultation with the instructor. *Qualified students may enroll in this course more than once, provided the content of the course is different in each instance. A student may not enroll in more than two courses of Special Study in Art in any single term. Prerequisite: Permission of instructor.*

Each Term Staff Arrange









BIOLOGY

ASSOCIATE PROFESSOR WELLS, *Chairman*

PROFESSOR McMENAMIN

ASSOCIATE PROFESSOR STEPHENS

ASSOCIATE PROFESSOR HARDY

ASSISTANT PROFESSOR THEOBALD

ASSISTANT PROFESSOR HAND

ASSISTANT PROFESSOR MORTON

MRS. SMITH, *Instructor*

Occidental College offers a balanced curriculum in biology encompassing studies of whole organisms; structure and process at the organ, tissue, cellular and molecular levels; and relationships of organisms to each other and to man. Creative application of technical skills to the solution of biological problems is emphasized within biology courses as well as through student participation in research activities and the Departmental Honors program. A majority of graduates with a major in biology elect to take graduate training toward doctorates of philosophy, medicine or dentistry. Others enter directly into careers in biomedical research or government service. Substantial numbers of biology majors take depth of training in a second discipline such as chemistry, physics, mathematics, geology or education with the intent of becoming biochemists, biophysicists, biometricians, paleontologists or teachers of biology.

The Department of Biology is located in Norris Hall of Science and the Moore Laboratory of Zoology. Norris Hall provides instructional laboratories and research facilities for microbiology, genetics and molecular biology, invertebrate zoology, physiology, development biology, cellular biology and botany. Norris Hall facilities include individual student research laboratories, constant temperature rooms, animal quarters and instrumentation for sophisticated experimental studies of microorganisms, plants, and animals. A green house is adjacent to the botanical laboratory and herbarium.

The Moore Laboratory, a center for the study of vertebrate zoology, provides facilities for the study of physiological ecology, behavior, anatomy, systematics, distribution and evolution of vertebrate animals. The laboratory houses the outstanding Robert T. Moore collection of Mexican and Central American birds which contributes to its function as a major museum facility. A new addition to the Moore Laboratory provides controlled en-

BIOLOGY

vironment rooms, marine and fresh water aquarium systems, and physiology laboratories.

Because of its location, in close proximity to the Mojave desert, the San Gabriel and San Bernardino Mountains (to altitudes of 8000 feet), and sea coast, Occidental College is ideally situated for field and laboratory studies of environmental biology.

MAJOR: Biology 1, 100, 105, 110, 120, 154, and a minimum of three additional courses in the department (exclusive of research, honors, and seminar) to be chosen on consultation with the student's faculty adviser to meet the needs and interests of the student. Students intending to apply to graduate schools are advised to take additional courses, including Biology 180. Seniors must participate in course 190, Seminar (see next paragraph) but need not register for credit. Supporting course work in the physical sciences, including Chemistry 1, 2, 51, 52, Mathematics 21, and Physics 21, 22 (or equivalents) is required of Biology majors.

The comprehensive examination will be in three parts: (1) an oral presentation in the Seminar; (2) a written examination administered by the faculty of the Department of Biology; (3) the Area Test in Biology administered by the Educational Testing Service as a part of the Undergraduate Record Examinations. The student is charged a fee by the Educational Testing Service for this latter examination.

HONORS: Departmental Honors in Biology are awarded at graduation to qualified students for completing readings in one of the broad fields of biology listed under Graduate Study, and preparation of a thesis reporting the results of independent research on a specific problem within the selected area.

GRADUATE STUDY: Graduate study toward the degree of Master of Arts under the thesis plan may be undertaken in biology by properly qualified students. Research facilities are available within Norris Hall of Science and in the Moore Laboratory of Zoology. Thesis projects may be elected in any of the following fields: cellular biology, comparative physiology, developmental biology, environmental physiology, animal behavior, regulatory biology, and systematic biology.

A limited number of highly qualified Occidental biology majors may be admitted to the Master of Arts degree program at any time after completion of the junior year. Such students may take up to one course each term for graduate credit concurrently with work toward completion of the A.B. degree. Students selected for participation in this program will be expected to complete the M.A. degree within one year after completion of the A.B., and are encouraged to accelerate by the use of summer terms.

PREMEDICAL AND PREDEENTAL PROGRAM: For information concerning Pre-medical and Predental Programs, see page 51.

1. FOUNDATIONS OF BIOLOGY. Patterns of biological thought. Unity, diversity and levels of organization in biological systems. Cell biology, homeostasis, biological replication, heredity, ecology and evolution.

Fall Wells Lectures: 11:05 a.m.-12:20 p.m.
Laboratory: 2:20-5:30 p.m.

Section 1: Mon.
Section 2: Tues.
Section 3: Wed.
Section 4: Thurs.

50. HUMAN ANATOMY AND PHYSIOLOGY. Structure and function of vertebrate organ systems, with emphasis on human organology. *Prerequisite: Biology 1 and Chemistry 1 or Natural Science 1, 2 and 3.*

Winter Wells Lectures: 1:15-2:15 p.m.
Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

100. PLANT BIOLOGY. Fundamentals of plant structure and function and evolutionary relationships of major plant groups. *Prerequisite: Biology 1.*

Fall Theobald Lectures: 8:50-9:50 a.m.
Laboratory: Section 1: Mon.-Wed. 2:20-5:30 p.m.
Section 2: Tues.-Thurs. 2:20-5:30 p.m.

105. COMPARATIVE ANATOMY OF VERTEBRATES. Gross anatomy of selected vertebrate animals, with emphasis on the evolution of vertebrate organ systems. *Prerequisite: Biology 1.*

Winter Stephens Lectures: 1:15-2:15 p.m.
Laboratory: Section 1: Mon.-Wed. 2:20-5:30 p.m.
Section 2: Tues.-Thurs. 2:20-5:30 p.m.

110. PHYSIOLOGY. Principles of physiology and the function of vertebrate organ systems. *Prerequisite: Biology 105 or 125, Chemistry 2, and Physics 22 (or concurrent).*

Spring Wells and Morton
Lectures: 11:05 a.m.-12:20 p.m.
Laboratory: Section 1: Mon.-Wed. 2:20-5:30 p.m.
Section 2: Tues.-Thurs. 2:20-5:30 p.m.

115. MICROBIOLOGY. The biology of microorganisms, with emphasis on the bacteria. *Prerequisite: Biology 1 and Chemistry 2.*

Fall Smith Lectures: 10:00-11:00 a.m.
Laboratory: Tues.-Thurs. 2:20-4:25 p.m.
and 2 hours Arrange

120. INVERTEBRATE BIOLOGY. Structure, function, classification, ecology and evolution of invertebrate animals. *Prerequisite: Biology 1.*

Spring Hand Lectures: 10:00-11:00 a.m.
Laboratory: Section 1: Mon.-Wed. 1:15-4:25 p.m.
Section 2: Tues.-Thurs. 1:15-4:25 p.m.

121-221. MARINE INVERTEBRATE BIOLOGY. Physiology, behavior, and ecology of marine invertebrate animals. *Prerequisite: Biology 110, 120.*

Fall Hand Lectures: 11:05 a.m.-12:20 p.m.
Laboratory: Mon.-Wed. 1:15-4:25 p.m.

BIOLOGY

125. DEVELOPMENTAL BIOLOGY. Classical embryology and experimental studies of fertilization, morphogenesis, and the physiology of differentiation in selected vertebrate and invertebrate animals. *Prerequisite: Biology 105 and Chemistry 2.*

Winter McMenamin and Hand

Lectures: 10:00-11:00 a.m.

Laboratory: Section 1: Mon.-Wed. 2:20-5:30 p.m.

Section 2: Tues.-Thurs. 2:20-5:30 p.m.

150-250. CELLULAR BIOLOGY. General histology, histotechniques and selected studies of cells using cytochemical and cell culture techniques. *Prerequisite: Biology 1, Chemistry 2.*

Fall McMenamin Lectures: 7:45-8:45 a.m.

Laboratory: Section 1: Tues.-Fri. 2:20-5:30 p.m.

Section 2: Wed.-Fri. 2:20-5:30 p.m.

154-254. GENETICS. Classical and molecular genetics, with laboratory work emphasizing microbial systems. *Prerequisite: Biology 1, Chemistry 52.*

Spring Smith Lectures: 8:50-9:50 a.m.

Laboratory: Section 1: Mon.-Wed. 2:20-5:30 p.m.

Section 2: Tues.-Thurs. 2:20-5:30 p.m.

155-255. MOLECULAR BIOLOGY. Intermediary metabolism and the physiology of subcellular systems. *Prerequisite: Biology 1, Chemistry 52.*

Winter Smith Lectures: 8:50-9:50 a.m.

Laboratory: Mon.-Wed. 2:20-5:30 p.m.

160-260. BIOLOGY OF THE VERTEBRATES. Classification, distribution, behavior and ecology of the vertebrates, with emphasis on the vertebrate fauna of Southern California. *Prerequisite: Biology 1, Biology 105 or permission of instructor.*

Spring Stephens Not given in 1969-70.

163-263. COMPARATIVE VERTEBRATE PHYSIOLOGY. Physiological studies of vertebrate animals with special attention to the adaptations for survival in their ecological setting. *Prerequisite: Biology 110, Chemistry 52.*

Winter Morton Lectures: 1:15-2:15 p.m.

Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

165-265. AVIAN BIOLOGY. Anatomy, physiology, phylogeny, behavior, and ecology of birds. *Prerequisite: Biology 1.*

Fall Hardy Lectures: 1:15-2:20 p.m.

Laboratory: Fri. 2:20-5:30 p.m. and 2 hours Arrange

167-267. ANIMAL BEHAVIOR. Selected topics in animal behavior. Emphasis on methods of study, on adaptive and evolutionary significance, on regulation and control of behavioral phenomena. *Prerequisite: Biology 1 or Psychology 1.*

Spring Hardy Lectures: 1:15-2:15 p.m.

Laboratory: 2:20-5:30 p.m. and 2 hours arrange

170-270. PLANT GROWTH AND DEVELOPMENT. The physiology of flowering plants in relation to their structure and development. *Prerequisite: Biology 1, 100, Chemistry 2. Organic Chemistry recommended. Given in alternate years.*

Winter Not given in 1969-70.

175-275. PLANT TAXONOMY. Methods of analysis of plant relationships and principles of classification. Collection and identification of vascular plants. *Prerequisite: Biology 1, 100.*

Spring Theobald Lectures: 11:05 a.m.-12:20 p.m.

Laboratory: Tues.-Thurs. 1:15-4:25 p.m.

BIOLOGY

176-276. ECOLOGY. General and experimental ecology, with emphasis on contemporary problems and quantitative methods. *Prerequisite: Biology 1. Given in alternate years.*

Winter Theobald and Hardy Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: Tues.-Thurs. 1:15-4:25 p.m.
 and occasional Saturdays

179-279. EVOLUTION. Mechanisms of evolution: adaptation, selection, population genetics, and ecological models. *Prerequisite: Biology 1 or Natural Science 3.*

Fall Stephens 8:50-9:50 a.m.

190-290. SEMINAR. Presentation of papers by student participants. A student may enroll for credit in any term of the senior year, but the final grade is withheld until the entire year's work has been completed. *Prerequisite: Senior standing and permission of the Biology Department.*

Each Term Morton One meeting per week to be arranged.

197-297. SPECIAL TOPICS. Individual or group study of specific major problems in contemporary biology. For students with advanced competence who seek study in an area not otherwise included in the departmental curriculum. *Prerequisite: Permission of the instructor and approval of the department.*

Each term Staff Arrange

198. RESEARCH. Supervised investigation by qualified students, continuous throughout the year. A student may enroll for credit in any term of the senior year, but the final grade is withheld until the entire year's work has been completed. *Prerequisite: Senior standing and permission of the Biology Department.*

Each Term Staff Arrange

199. HONORS. May be taken in final term of the senior year.

Each Term Staff Arrange

301. RESEARCH. Supervised investigation by properly qualified graduate students. The student may not register for more than two courses of Research during any term.

Each Term Staff Arrange

390. THESIS FOR MASTER OF ARTS DEGREE. *Prerequisite: At least 2 courses of Biology 301 and permission of the Biology Department.*

Each Term Staff Arrange

CHEMISTRY

ASSOCIATE PROFESSOR CLELAND, *Chairman*

PROFESSOR LAMBERT

ASSOCIATE PROFESSOR McANALLY

ASSOCIATE PROFESSOR DE HAAN

ASSISTANT PROFESSOR AMEY

ASSISTANT PROFESSOR WEST

MISS SWEETING, *Instructor*

The curriculum of this department is designed to provide the student with a sound and comprehensive grasp of the principles of chemistry, including the laboratory experience necessary for basic research, teaching, and industrial research and development. The sequence of courses builds to the senior year, when each student is encouraged to participate in a research program. The project is selected after consultation with the departmental staff, and each senior has a member of the faculty as his adviser.

To the student preparing for medicine or related professions, training is offered in the fundamental and applied branches of chemistry which are so basic to them. In addition, chemistry offers to the liberal arts student an appreciation and understanding of the discoveries, methods and place of this subject in our present civilization.

The program for majors also provides for entrance into the School of Engineering of Columbia University and the Applied Chemistry Program of the California Institute of Technology under the Combined Plan Program. Students interested in engineering should consult pages 55-56 for details of this plan.

MAJOR: Nine courses from this department: Chemistry 11, 12 (or 1, 2, and 21); Chemistry 61, 62, 63; Chemistry 101, 102, 190 and one other course chosen in consultation with the student's adviser. Departmental requirements also include Mathematics 41, 42, and 43 and Physics 11 and 12. German or Russian should be chosen to fulfill the college requirement in a foreign language. All majors are urged to take Mathematics X1 and X4.

Students planning to attend graduate schools in chemistry are strongly advised to take Chemistry 103, Chemistry 108, at least one term of Chem-

istry 199, and Physics 13. Many of these students will also wish to take Mathematics 61, 62, 63.

INTERDEPARTMENTAL MAJOR IN GEOCHEMISTRY: Chemistry 11, 12, 101, 102, 108; Geology 1, 43, 51, 52 or 53, 111, 131. Chemistry 61, 62, and 63 are strongly recommended. For additional information see page 88.

The Department of Chemistry is approved by the American Chemical Society for the professional training of chemists. Completion in full of the requirements for the major in chemistry plus the advised courses above admits to full membership in the A.C.S. within a minimum of two years after graduation.

An alternate pattern for the major is offered for those students who are interested in pursuing a program more definitely oriented toward biological chemistry. In addition to the basic requirements this sequence of study includes Biology 1, 110, 155, and Chemistry 107. Chemistry 51 and 52 may be substituted for Chemistry 61, 62, and 63 with the approval of the student's adviser.

Details concerning the required comprehensive examination in this department may be obtained from the major adviser. In the case of the alternate program described above, the comprehensive examination will cover the specified courses in biology and chemistry.

An outline of the four-year program for majors in this department may be obtained from either the Registrar or the Chairman of the Department.

HONORS: With the permission of the staff, senior students with at least a "B" average in chemistry may be permitted to carry on individual research and to present a written thesis for Departmental Honors at graduation. Consult the department chairman concerning details.

BREAKAGE: Students enrolled in laboratory work will be charged for breakage of equipment based on a schedule of equipment costs as posted at the departmental stockroom.

1. GENERAL CHEMISTRY I. An introduction to the principles of chemical systems: structural concepts, properties of matter and chemical reactions, including laboratory practice. Designed primarily for majors in fields other than the physical sciences. *Prerequisite: Second year high school algebra and high school chemistry or permission of the instructor.*

Winter Amey Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: 2:20-5:30 p.m.

Section 1: Mon.	McAnally
Section 2: Tues.	Cleland
Section 3: Wed.	McAnally
Section 4: Wed.	Sweeting, West
Section 5: Thurs.	McAnally

CHEMISTRY

2. GENERAL CHEMISTRY II. A continuation of General Chemistry I. *Prerequisite: Chemistry I.*

Spring Lambert Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Mon. Cleland
 Section 2: Tues. De Haan
 Section 3: Wed. Cleland
 Section 4: Thurs. De Haan
 Section 5: Thurs. Amey

11. PRINCIPLES OF CHEMISTRY I. An introduction to chemical bonding, structural chemistry, kinetics, and thermodynamics with applications to inorganic and analytical chemistry. The laboratory will include experience in gravimetric, volumetric, electrical and optical methods of analysis. *Prerequisites: high school chemistry and physics (or the equivalent), Mathematics 22 (or in course), or permission of the instructor. Open to non-chemistry majors if space available.*

Winter West Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Mon.-Wed. West
 Section 2: Tues.-Thurs. De Haan

12. PRINCIPLES OF CHEMISTRY II. A continuation of Principles of Chemistry I. *Prerequisite: Chemistry 11, Mathematics 23 (or in course).*

Spring West Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Mon.-Wed. West
 Section 2: Tues.-Thurs. McAnally

21. QUANTITATIVE CHEMISTRY. The study of the quantitative relationships of equilibrium systems in inorganic chemistry, and the quantitative aspects of oxidation-reduction reactions both in theory and in laboratory procedures. *Prerequisite: Chemistry 2 and Mathematics 20, or permission of the instructor.*

Fall McAnally Lectures: 1:15-2:15 p.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Tues. McAnally
 Section 2: Wed. McAnally

51. ORGANIC CHEMISTRY I. A consideration of the theory and practice of organic chemistry with emphasis on medicinal applications and elementary biochemistry. *Prerequisite: Chemistry 2.*

Fall Cleland Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Mon. Cleland
 Section 2: Wed. Cleland

52. ORGANIC CHEMISTRY II. A continuation of Organic Chemistry I. *Prerequisite: Chemistry 51.*

Winter Cleland Lectures: 11:05 a.m.-12:20 p.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Mon. Cleland
 Section 2: Wed. Cleland

61. ORGANIC CHEMISTRY: STRUCTURE AND MECHANISM I. The principles of organic chemistry, primarily for chemistry majors, with emphasis on theoretical treatment of structure and reactions. The laboratory includes an introduction to

procedures of organic chemistry and the use of modern instrumental techniques. *Prerequisite: Chemistry 12 or Chemistry 21 (or in course).*

Fall Sweeting Lectures: 8:50-9:50 a.m.
 Sweeting Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

62. ORGANIC CHEMISTRY: STRUCTURE AND MECHANISM II. A continuation of the course for chemistry majors. *Prerequisite: Chemistry 61.*

Winter Sweeting Lectures: 8:50-9:50 a.m.
 Sweeting Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

63. ORGANIC CHEMISTRY: STRUCTURE AND MECHANISM III. A continuation of the course for chemistry majors. The laboratory will include a rigorous treatment of qualitative organic analysis with emphasis upon both theory and application. *Prerequisite: Chemistry 62 or 52.*

Spring Sweeting Lectures: 8:50-9:50 a.m.
 Sweeting Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

101. PHYSICAL CHEMISTRY I. An introduction to the study of thermodynamics and electrochemical properties of systems in equilibrium. *Prerequisites: Chemistry 12 or 21, Mathematics 23 and Physics 12 or permission of the instructor.*

Fall Amey Lectures: 10:00-11:00 a.m.
 Laboratory: 2:20-5:30 p.m.
 Section 1: Mon.
 Section 2: Tues.
 Section 3: Wed.

102. PHYSICAL CHEMISTRY II. A continuation of Physical Chemistry I, with emphasis upon the theory of molecular interactions and chemical kinetics. *Prerequisite: Chemistry 101.*

Winter De Haan Lectures: 10:00-11:00 a.m.
 Amey Laboratory: 2:20-5:30 p.m.
 Section 1: Mon.-Wed.
 Section 2: Tues.-Thurs.

103. PHYSICAL CHEMISTRY III. A continuation of Physical Chemistry II, with emphasis upon the fundamentals of quantum and statistical mechanics, spectroscopy, and their application to some systems of chemical interest. *Prerequisite: Chemistry 102.*

Spring De Haan Lectures: 10:00-11:00 a.m.
 Amey Laboratory: Mon.-Wed. 2:20-5:30 p.m.

107. BIOCHEMISTRY. Organic and physical chemistry of compounds and systems of biological interest. *Prerequisite: Chemistry 52 or permission of the instructor.*

Spring McAnally Lecture: 10:00-11:00 a.m.

108. INORGANIC CHEMISTRY. Applications of modern theories of physics and chemistry to inorganic chemistry. *Prerequisite: Chemistry 102 or permission of the instructor.*

Fall De Haan Lecture: 8:50-9:50 a.m.

150. INSTRUMENTAL ANALYSIS. The theory, applications, and limitations of modern methods of analysis. *Prerequisites: Physics 12 and Chemistry 101, or permission of instructor.*

Fall West Lectures: Arrange
 Laboratory:
 Section 1: Arrange West
 Section 2: Arrange West

CHEMISTRY

190. INTRODUCTION TO RESEARCH. This course is designed to enable the student to conduct a successful research investigation. The lecture and laboratory encompass the use of the chemical literature, including a literature search and presentation of both written and oral reports; advanced synthesis in one of several fields depending on the individual student's interest; application of instrumental methods in qualitative and quantitative approaches. *Prerequisite: Permission of department chairman.*

Fall	Staff	Lectures: 1:15-2:15 p.m.
	Staff	Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

198. RESEARCH. Independent study in a field of chemistry of the student's choosing under the direct supervision of a member of the staff. *Prerequisite: Permission of the department chairman.*

Each Term Staff Arrange

ECONOMICS

ASSOCIATE PROFESSOR HARING, *Chairman*

PROFESSOR DE RYCKE

ASSISTANT PROFESSOR SHAFFER

MR. HUMPHREY, *Instructor*

MR. McCONNEL, *Instructor*

Economics deals with challenging and controversial problems of our time with which any well-educated person should be conversant. The department offers courses which aid in the understanding of problems of business and public economy, and which establish a background for careers in business administration, public service, law, teaching, or research.

The department offers two majors: (1) Economics, intended especially for those students who wish to prepare for graduate work in government, foreign affairs, and economics; (2) Business Administration, designed for those students who wish to concentrate more on practical business affairs, or prepare for graduate schools of business or law.

Students interested in economic studies are referred also to the interdepartmental major in Diplomacy and World Affairs (page 46).

MAJOR IN ECONOMICS: Eight courses from this department: Economics 1, 2, 51, 52, 106, 108, 111, and 115, plus either Mathematics 23 or 43.

MAJOR IN BUSINESS ADMINISTRATION: Nine courses from this department: Economics 1, 2, 51, 52, 53, 54, 106, 114, and 115.

HONORS: Qualified majors may achieve Departmental Honors at graduation through completion of a program of independent research and a senior thesis. Consult the department chairman for details. Juniors and seniors should take at least one term of Economics 199 to be eligible for honors.

1. INTRODUCTION TO ECONOMICS. The economics of nations (government spending, taxation, national debt, money, depressions, and inflation).

<i>Fall</i>	Haring	Section 1: 11:05 a.m.-12:20 p.m. (<i>Economics and Business majors</i>)
	Humphrey	Section 2: 7:45-8:45 a.m. (<i>Political Science majors</i>)
	Humphrey	Section 3: 1:15-2:15 p.m.
	McConnel	Section 4: 8:50-9:50 a.m. (<i>Diplomacy and World Affairs majors</i>)
<i>Winter</i>	Shaffer	Section 1: 2:20-3:20 p.m.
	McConnel	Section 2: 8:50-9:50 a.m.
<i>Spring</i>	Haring	11:05 a.m.-12:20 p.m.

ECONOMICS

2. INTRODUCTION TO PRICE THEORY. Price and allocation theory, gold, international trade, free enterprise, government regulation, the farm problem, and related areas. *Prerequisite: Economics 1.*

Winter	de Rycke	Section 1: 1:15-2:15 p.m.	<i>(Diplomacy and World Affairs majors)</i>
	McConnel	Section 2: 11:05 a.m.-12:20 p.m.	
Spring	Humphrey	Section 1: 8:50-9:50 a.m.	
	Shaffer	Section 2: 2:20-3:20 p.m.	

49. PRINCIPLES OF INVESTMENT. An introduction to elementary concepts and practices of finance. The management of private funds in money and securities markets. *No prerequisite; Economics 1 and 2 preferable.*

Fall	de Rycke	1:15-2:15 p.m.
Spring	de Rycke	1:15-2:15 p.m.

51. INCOME AND BUSINESS FLUCTUATIONS. National income, money, aggregate economic analysis. *Prerequisite: Economics 1, 2.*

Spring	Humphrey	11:05 a.m.-12:20 p.m.
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52. INTERMEDIATE ECONOMIC THEORY. Utility, price, and distribution. *Prerequisite: Economics 1, 2.*

Fall	McConnel	11:05 a.m.-12:20 p.m.
Spring	Shaffer	10:00-11:00 a.m.

53. ACCOUNTING. Accounting principles and practices. *Prerequisite: Economics 1, 2, or permission of instructor.*

Fall	de Rycke	2:20-3:20 p.m.
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54. ACCOUNTING. Accounting principles presented as a tool subject useful to students of engineering, law, science, and social science, as well as to majors in Economics and Business Administration. *Prerequisites: Economics 1, 2, and 53, or permission of instructor.*

Winter	de Rycke	2:20-3:20 p.m.
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106. ELEMENTARY ECONOMETRICS. Application of mathematics and statistics to economics. *Prerequisite: Economics 1, 2; Mathematics X3, 19, and 21, or equivalent.*

Fall	Haring	10:00-11:00 a.m.
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108. ECONOMICS OF GOVERNMENT. Public finance, taxation, expenditure policy, the budget. *Prerequisite: Economics 1, 2.*

Winter	Shaffer	10:00-11:00 a.m.
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109-209. INTERNATIONAL ECONOMIC SYSTEMS. Capitalism, socialism, and democracy in rich and poor countries. *Prerequisite: Economics 1, 2.*

Not given in 1969-70.

110. LABOR ORGANIZATION. History of labor unions, industrial relations, theories of union organization and management. *Prerequisite: Economics 1, 2.*

Not given in 1969-70.

111-211. INTERNATIONAL TRADE AND COMMERCIAL POLICY. Composition of international trade, balance of payments, trade theory, international economic policy. *Prerequisite: Economics 1, 2.*

Fall	Shaffer	2:20-3:20 p.m.
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ECONOMICS

112. DEVELOPMENT OF ECONOMIC IDEAS. Relation of economic thought to economic history: Adam Smith to present. *Prerequisite: Economics 1, 2.*

Spring McConnel 8:50-9:50 a.m.

114. BUSINESS ORGANIZATION. Organization theory, the business case method, and the corporation. *Prerequisite: Economics 1, 2, 53, 54.*

Spring de Rycke 2:20-3:20 p.m.

115. MONETARY ECONOMICS. Relation of money to prices and output; dynamic economics. *Prerequisite: Economics 1, 2, 51.*

Winter Humphrey 8:50-9:50 a.m.

117. RESEARCH SEMINAR IN ECONOMICS. Application of modern research methods to current problems in economics and related fields. *Prerequisite: Economics 1, 2, and permission of the chairman.*

Each Term Staff Arrange

120-220. ECONOMIC DEVELOPMENT. Underdeveloped countries and economic progress; history and theory; the relationship of international trade to growth. *Prerequisite: Economics 1, 2.*

Not given in 1969-70.

125. URBAN ECONOMICS. Poverty and plenty in the city; the study of urban blight and the planning problems of new cities. *Prerequisite: Economics 1, 2.*

Spring Haring 10:00-11:00 a.m.

199. HONORS. *Required of all students in Departmental Honors program.*

Each Term Staff Arrange

EDUCATION

PROFESSOR PETRIE

PROFESSOR STANCHFIELD

PROFESSOR OLIVER (*of the Department of English and Comparative Literature*)

ASSOCIATE PROFESSOR FRODSHAM (*of the Department of Music*)

MR. FICHTNER, *Instructor (of the Department of Physical Education)*

MR. MOORE, *Lecturer*

BY SPECIAL APPOINTMENT: Mr. Dalton (*of the Department of Art*)

The Department of Education has as its major function professional preparation for teaching in the elementary and secondary schools of the State of California. The department regards professional education as comprehending within its scope the development of social and personal attitudes and responsibilities, ethical standards, and ideals of service. In providing both cultural and scientific backgrounds it aims to promote an appreciation of the institutions and traditions of a free society, to foster attitudes of critical observation and judgment, and to equip the prospective teacher with the knowledges and skills involved in the more technical aspects of the educative process.

The program of the Department of Education is therefore designed to meet the needs of individuals with respect to all of these factors of competency and to include those courses indicated by the State Department of Education as recommended or required for the various standard teaching credentials.

The Master of Arts in Teaching is available to qualified individuals who possess, or become candidates for, the standard credential in secondary education. For information on requirements for this degree see the Graduate Study section, pages 25-31.

TEACHING CREDENTIALS

Occidental College has been authorized by the California State Board of Education to recommend properly qualified candidates for the standard teaching credentials with the following specializations: (1) Elementary Teaching, (2) Secondary Teaching, (3) Junior College Teaching.

Students with junior or senior standing may be admitted to the Department of Education as candidates for one or more of the credentials men-

tioned above, provided their records in the first two years of college work indicate the probability of their fitness for the teaching profession. This includes, in addition to a satisfactory standard of scholarship, seriousness of purpose and natural interest in the work.

Currently enrolled students who wish to prepare for the credentials must consult the Department of Education and must file formal applications before beginning junior year work, preferably as sophomores before May 1.

Graduates from institutions of recognized standing may be admitted as candidates for any credential provided they meet the requirements of the college. For further information concerning the requirements for graduate study and admission to graduate standing, see pages 25-31.

An appointment bureau is maintained by the Department of Education for the assistance of candidates for teaching positions.

REQUIREMENTS FOR CREDENTIALS

FOR ALL CREDENTIALS: A bachelor's degree, admission to graduate standing in the College; approval of candidacy and courses of study by the Department of Education and the major and minor departments; three courses in English and demonstrated competence in composition; a postgraduate year of at least seven courses or equivalent; completion of a course or passing of an examination in the principles and provisions of the United States Constitution (see page 20); a medical examination administered by the College physician.

FOR THE STANDARD TEACHING CREDENTIAL WITH A SPECIALIZATION IN ELEMENTARY TEACHING: Four years, or the equivalent, of college or university education, with a baccalaureate or higher degree from an institution approved by the California State Board of Education; a fifth year of college or postgraduate university education, consisting of at least seven courses or equivalent; courses and competencies in general education, or their equivalents, as listed: three courses in English and demonstrated competence in composition, History of Civilization 1-2-3-4-5-6, Natural Science 1-2-3, Mathematics 1, Foreign Language—three terms; a major selected from the approved list of majors*; professional preparation to include Education 102, 110, 130, 131, 132, 133, 134, 149 and 150.

FOR THE STANDARD TEACHING CREDENTIAL WITH A SPECIALIZATION IN SECONDARY TEACHING: Four years, or the equivalent, of college or university education, with a baccalaureate or higher degree from an institution approved by the California State Board of Education; a fifth year of college or

*See Education Department Bulletin on Requirements for Credentials for lists of approved majors.

EDUCATION

postgraduate university education, consisting of at least seven courses or equivalent; courses and competencies in general education, or their equivalents, as listed: three courses in English and demonstrated competence in composition, History of Civilization 1-2-3-4-5-6, Natural Science 1-2-3, Foreign Language—three terms; a major selected from the list of approved majors* consisting of at least six courses of upper division or graduate level work (at least two courses required for the major must be graduate level course work completed after the bachelor's degree); professional preparation to include Education 102, 110, 230, 250 and 251. Music majors may substitute Education 140 for Education 230. Physical Education majors may substitute Education 152 and 153 for Education 250 and 251. Foreign Language majors may substitute Linguistics 110-210 for Education 230. English and Comparative Literature majors may substitute Education 135-235 for Education 230.

FOR THE STANDARD TEACHING CREDENTIAL WITH A SPECIALIZATION IN JUNIOR COLLEGE TEACHING: A master's degree, doctor's degree or other postgraduate degree approved by the California State Board of Education; courses and competencies in general education, or their equivalents, as listed: three courses in English and demonstrated competence in composition, History of Civilization 1-2-3-4-5-6, Natural Science 1-2-3, Foreign Language—three terms; a major selected from the list of approved majors.* Education 110 and 250 are recommended.

INTERNSHIP PLANS FOR COMPLETION OF CREDENTIAL REQUIREMENTS: In cooperation with several school districts there are available to selected candidates internship plans for completion of the requirements for the standard elementary and secondary credentials. Details of the requirements, fees, and operation of the plans may be secured through the office of the chairman of the Department of Education.

102-202. SOCIAL FOUNDATIONS OF EDUCATION. Survey of ideas which have shaped educational theory and practice; school and community; field study of adolescent society and value systems.

<i>Winter</i>	Frodsham	2:20-3:20 p.m.
<i>Spring</i>	Frodsham	4:00-5:00 p.m.

110-210. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION. Learning process and principles, growth and development, mental hygiene, personality development and guidance.

<i>Fall</i>		1:15-2:15 p.m.
<i>Spring</i>		1:15-2:15 p.m.

*See Education Department Bulletin on Requirements for Credentials for lists of approved majors.

130. METHODS AND OBSERVATION OF TEACHING LANGUAGE AND LITERATURE IN ELEMENTARY SCHOOLS. Principles and procedures related to the development of oral and written language; the enrichment of the language program through children's literature; criteria for the selection and evaluation of children's books.

Winter Moore 3:25-4:25 p.m.

131-231. METHODS AND OBSERVATION OF TEACHING READING IN ELEMENTARY SCHOOLS. Practices and trends in teaching reading to elementary school children. Covers objectives, materials, teaching procedures, and evaluation. Includes reading readiness, word analysis skills, comprehension and interpretation, location and organization skills, and use of adopted texts.

Fall Moore 3:25-4:25 p.m.

132. METHODS AND OBSERVATION OF TEACHING SOCIAL STUDIES AND SCIENCE IN ELEMENTARY SCHOOLS. Materials and methods for teaching social studies and science to children; understanding concepts; developing units of instruction; evaluating growth; and 30 clock hours of student teaching. *Prerequisite: Education 131.*

Winter Petrie 11:05 a.m.-12:20 p.m.

133. METHODS AND OBSERVATION OF TEACHING ELEMENTARY SCHOOL MUSIC. A practical course in music education based on the instrumental approach. Demonstrations in every grade coordinated with development of skills in playing and singing.

Fall Frodsham 8:50-9:50 a.m.

134. MATERIALS AND METHODS OF TEACHING ART IN ELEMENTARY SCHOOLS. Basic art experiences in drawing, color and design and their relationship to the teaching of art in the elementary school. (*Identical with Art 134.*)

Winter Dalton 3:30-5:30 p.m.

135-235. TEACHING OF ENGLISH AND COMPARATIVE LITERATURE IN THE SECONDARY SCHOOL. Curriculum and instructional procedures and materials used in teaching English and Comparative Literature in the secondary schools. *Prerequisite: Education 110.*

Winter Oliver 4:30-5:30 p.m.

140. PRINCIPLES OF MUSIC EDUCATION. A study of the music curriculum from kindergarten through junior college. Demonstrations, observations, and participation in the public schools provided. (*Music majors may substitute this course for Education 230.*)

Winter Frodsham 1:15-2:15 p.m.

149. STUDENT TEACHING IN ELEMENTARY SCHOOLS AND AUDIO-VISUAL LABORATORY. *Prerequisite: Education 110, 130, 131, 132. Fee \$25. (This course may be taken concurrently with Education 150.)*

Each Term Staff Arrange

150. STUDENT TEACHING IN ELEMENTARY SCHOOLS AND AUDIO-VISUAL LABORATORY. *Prerequisite: Education 110, 130, 131, 132. Fee \$25. (This course may be taken concurrently with Education 149.)*

Each Term Staff Arrange

151. STUDENT TEACHING IN ELEMENTARY SCHOOLS AND AUDIO-VISUAL LABORATORY. Continuation. *Prerequisite: Education 149, 150. (On the internship program the third term of student teaching is taken during the first year of teaching after graduation. See special fee for interns.*

Each Term Staff Arrange

EDUCATION

152. STUDENT TEACHING IN PHYSICAL EDUCATION AND AUDIO-VISUAL LABORATORY. *Fee for single assignment \$25; double assignment, \$45. (Physical Education majors may substitute this course for Education 250.)*

Spring Staff Arrange

153. STUDENT TEACHING IN PHYSICAL EDUCATION AND AUDIO-VISUAL LABORATORY. Continuation. *Prerequisite: Education 152 or equivalent. Fee for single assignment \$25; double assignment, \$45. (Physical Education majors may substitute this course for Education 251.)*

Spring Staff Arrange

154. STUDENT TEACHING IN MUSIC AND AUDIO-VISUAL LABORATORY. *Prerequisite: Music 140. Fee for single assignment \$25; double assignment \$45.*

Each Term Frodsham Arrange

155. STUDENT TEACHING IN MUSIC AND AUDIO-VISUAL LABORATORY. Continuation. *Prerequisite: Education 154 or equivalent. Fee for single assignment \$25; double assignment \$45.*

Each Term Frodsham Arrange

197-297. SPECIAL TOPICS.

Each Term Staff Arrange

230. THE SECONDARY SCHOOL. Scope and function, curriculum principles and organization, methodology, including measurement and evaluation, and classroom management. *Prerequisite: Education 110.*

Fall Petrie 7:45-8:45 a.m.
 and three hours weekly to be arranged.

Spring Petrie 7:45-8:45 a.m.
 and three hours weekly to be arranged.

250. STUDENT TEACHING IN SECONDARY SCHOOLS AND AUDIO-VISUAL LABORATORY. *Prerequisite: Education 110 and 230. Fee for single assignment \$25; double assignment \$45.*

Each Term Staff Arrange

251. STUDENT TEACHING IN SECONDARY SCHOOLS AND AUDIO-VISUAL LABORATORY. Continuation. *Prerequisite: Education 250 or equivalent. Fee for single assignment \$25; double assignment \$45. See special fee for interns.*

Each Term Staff Arrange

301. RESEARCH.

Each Term Staff Arrange

390. THESIS FOR MASTER OF ARTS DEGREE.

Each Term Staff Arrange

ENGLISH AND COMPARATIVE LITERATURE

PROFESSOR OWEN, *Chairman*

PROFESSOR KURTZ

PROFESSOR OLIVER

PROFESSOR BUSACCA

PROFESSOR RYF

ASSOCIATE PROFESSOR ADAMS

ASSISTANT PROFESSOR KINDER

ASSISTANT PROFESSOR HOWELLS

ASSISTANT PROFESSOR MAXWELL

ASSISTANT PROFESSOR HARRISON

MRS. MAEL, *Instructor*

MR. HOSNEY, *Instructor by Special Appointment*

The Department of English and Comparative Literature has three purposes: (1) to teach the literature of two traditions—the Anglo-American tradition through a major in English, and the major literary movements and masterpieces of World Literature through a major in Comparative Literature; (2) to develop critical perception in the reading of literature; and (3) to develop precision and grace in the writing of English.

Students who choose to concentrate their major study in this department should report to the department chairman for assignment to an adviser, with whom they will develop their program of courses.

MAJOR IN ENGLISH: Ten courses from this department at the 100 level.

MAJOR IN COMPARATIVE LITERATURE: Ten courses from this department at the 100 level, and at least two advanced courses of literature in a foreign language (beyond 102) related to a student's chosen period or genre.

The requirements for the two majors are conceived not as the accumulation of specifically required courses, but rather as knowledge of the areas embraced by the major and the ability to communicate this knowledge effectively.

ENGLISH AND COMPARATIVE LITERATURE

A *major in English* will assume: (1) knowledge of the Anglo-American tradition in literature, with the ability to relate this tradition to its cultural background and to the development of the English language; (2) critical ability based upon a knowledge of theory and skill in the analysis of individual works; (3) knowledge in depth of one literary period before 1900; (4) knowledge of the development of one of the following genres: the novel, the drama, lyric poetry; (5) knowledge in depth of Shakespeare and of either Chaucer or Milton.

A *major in Comparative Literature* will assume (1) knowledge of major movements and masterpieces of Western literature and masterpieces of Oriental literature, with the ability to associate these movements and works with the stream of ideas; (2) critical ability based upon a knowledge of theory and analytical skill; (3) knowledge in depth of Shakespeare and one other major figure in world literature; (4) knowledge of a chosen literary genre; (5) knowledge of a chosen literary period. Preparation in either genre or period should include study in depth of two or three literatures represented, one of these to be in a language other than English.

Before graduation a student must demonstrate his competence in the areas of his major. He may do so by taking the relevant departmental courses or appropriate projects of Independent Study, or he may present himself for special examination. A student who chooses to establish competence in a particular area through special examination should arrange an examination with the appropriate professor sometime before the last term of his senior year.

COMPREHENSIVE EXAMINATION: All majors in the department will take a senior comprehensive in which they will be asked to deal imaginatively with some question(s) of a general critical or historical nature requiring them to synthesize their knowledge of the major.

HONORS: A student in either major who has demonstrated his competence may, with the approval of his adviser and of the department chairman, elect to read for Departmental Honors.

GRADUATE PROGRAM: The department offers two programs of graduate study, one leading to the degree of Master of Arts, either in Anglo-American or in Comparative Literature, and the other leading to the degree of Master of Arts in Teaching Literature.

MASTER OF ARTS

Admission: To qualify for admission, applicants must present an undergraduate major, or equivalent study, in their elected field. An applicant

lacking some portion of the necessary preparation *may* be admitted as an "unclassified student" for a period of up to one year, during which he takes appropriate courses in order to become a qualified applicant for admission.

A limited number of Occidental undergraduate majors in the department may be admitted to the program at the end of the winter term of their junior year, to undertake an intensive program of study leading to both the A.B. and M.A. at the end of four regular academic years and two summer terms (normally the summer terms following the junior and senior years). Juniors admitted to the program will be eligible to take graduate courses beginning with the spring term of their junior year, and they will meet the graduate course requirements for the M.A. usually by taking one graduate course as part of their normal three-course load during each of their remaining terms of study. Ordinarily such students will receive the A.B. with their class in June, the M.A. at the end of the ensuing summer term.

Requirements:

Six graduate courses, of which at least four must be seminars.

Competence in foreign language:

Anglo-American: Ability to read with accuracy and reasonable speed scholarly and critical material in a foreign language, preferably French or German.

Comparative Literature: Competence to deal critically and at the graduate level with literature in a foreign language. Competence may be established by taking a graduate seminar in the foreign language or through an examination set by the Department of Languages and Linguistics. At least elementary competence in a second foreign language is expected.

Oral examination at the end of the program of study.

Apprenticeships under three different professors, which will involve limited and supervised practice in various activities, associated with teaching, e.g., leading discussion groups, preparing formal classroom presentations, marking papers.

Completion of the program within the stipulated time:

Full-time students: one academic year.

Part-time students: two academic years, at the rate of one course per term through six terms.

ENGLISH AND COMPARATIVE LITERATURE

MASTER OF ARTS IN TEACHING LITERATURE

In addition to the general college requirements for all M.A.T. candidates (see page 26), the department requires:

For Candidacy: Demonstration (through appropriate undergraduate study or special examination) that a competent background in literature has been achieved.

For the Degree:

Successful performance on the departmental qualifying examination in literature.

At least two seminars in literature

At least two other graduate courses in literature (which may be seminars)

Education 135-235: Teaching of English and Comparative Literature in the Secondary School.

Appropriate oral examination in literature

1. ENGLISH COMPOSITION. Intensive training in the principles of effective writing.

<i>Fall</i>	Owen	Section 1: 1:15-2:15 p.m.
	Hosney	Section 2: 2:20-3:20 p.m.
<i>Winter</i>	Hosney	7:45-8:45 a.m.
<i>Spring</i>	Maxwell	3:25-4:25 p.m.

32. EXPOSITORY ANALYSIS AND WRITING. Advanced studies in the analysis and writing of expository prose.

<i>Fall</i>	Harrison	7:45-8:45 a.m.
<i>Winter</i>	Kurtz	2:20-3:20 p.m.
<i>Spring</i>	Hosney	1:15-2:15 p.m.

33. MAJOR FIGURES IN ENGLISH LITERATURE. An introduction to types of literature through major figures, with significant training in literary analysis and in composition. *Intended primarily for nonliterature majors.*

<i>Fall</i>	Adams	2:20-3:20 p.m.
<i>Winter</i>	Hosney	Section 1: 1:15-2:15 p.m.
	Adams	Section 2: 1:15-2:15 p.m.
<i>Spring</i>	Kurtz	2:20-3:20 p.m.

34. MAJOR FIGURES IN WORLD LITERATURE. An introduction to types of literature through major figures, with significant training in literary analysis and in composition. *Intended primarily for nonliterature majors.*

<i>Fall</i>	Mael	1:15-2:15 p.m.
<i>Winter</i>	Oliver	Section 1: 2:20-3:20 p.m.
	Busacca	Section 2: 2:20-3:20 p.m.
<i>Spring</i>	Mael	2:20-3:20 p.m.

35. INTRODUCTION TO LITERARY STUDIES. A detailed introduction to the practice of literary criticism and research, with special attention to the investigation and use of secondary materials, and the analysis of such elements as structure, theme,

ENGLISH AND COMPARATIVE LITERATURE

prosody. Will include significant practice in written analysis. *Intended primarily for prospective literature majors.*

<i>Fall</i>	Kinder	1:15-2:15 p.m.
<i>Winter</i>	Owen	3:25-4:25 p.m.
<i>Spring</i>	Howells	1:15-2:15 p.m.

101. ENGLISH LITERATURE FROM THE BEGINNING THROUGH THE SIXTEENTH CENTURY. An introduction to the epic, lyric, narrative, and dramatic writing of England in the Middle Ages and Renaissance.

<i>Fall</i>	Maxwell	Section 1: 11:05 a.m.-12:20 p.m.
	Owen	Section 2: 3:25-4:25 p.m.

102. ENGLISH LITERATURE IN THE SEVENTEENTH AND EIGHTEENTH CENTURIES. The study of the late Renaissance and the Restoration and neo-classical periods through its major literary production.

<i>Winter</i>	Howells	Section 1: 11:05 a.m.-12:20 p.m.
	Kinder	Section 2: 3:25-4:25 p.m.

103. ENGLISH LITERATURE IN THE NINETEENTH AND EARLY TWENTIETH CENTURIES. The major poetry and prose of the Romantic, Victorian, and Edwardian periods.

<i>Spring</i>	Adams	Section 1: 11:05 a.m.-12:20 p.m.
	Harrison	Section 2: 3:25-4:25 p.m.

110. CREATIVE WRITING. Theory and practice in the art of literary creativity. *Registration only upon consent of the instructor.*

<i>Winter</i>	Harrison	11:05 a.m.-12:20 p.m.
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111. THE ENGLISH LANGUAGE. An introduction to the historical study of language, with studies of phonetics, vocabulary development, grammatical principles, and problems in understanding.

<i>Fall</i>	Oliver	2:20-3:20 p.m.
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145. AMERICAN LITERATURE BEFORE THE CIVIL WAR. A survey of American literature from the seventeenth century to 1860.

<i>Fall</i>	Kurtz	10:00-11:00 a.m.
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146. AMERICAN LITERATURE SINCE 1860. Major literary trends and representative writers during the last century.

<i>Spring</i>	Kurtz	10:00-11:00 a.m.
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147-247. THE ROMANTIC PERIOD IN AMERICAN LITERATURE—1800-1860. A study of America's major writers from Irving to Whitman.

Not given in 1969-70.

151. THE NOVEL TO 1900. Origins and historical developments of the novel in England. To be taught in alternate years with emphasis on A. The novel in the eighteenth century, and B. The novel in the nineteenth century. *In 1969-70: B. The Novel in the Nineteenth Century.*

<i>Fall</i>	Adams	10:00-11:00 a.m.
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152. THE NOVEL IN THE TWENTIETH CENTURY. The study of selected novels from the major writers of our age.

<i>Winter</i>	Ryf	2:20-3:20 p.m.
<i>Spring</i>	Harrison	10:00-11:00 a.m.

ENGLISH AND COMPARATIVE LITERATURE

161. DEVELOPMENT OF THE DRAMA. The development of the drama as a literary genre, with emphasis upon major English dramatists.

Winter Howells 8:50-9:50 a.m.

162. MODERN DRAMA. Dramatic forms, techniques and content in major works of the late nineteenth and twentieth centuries.

Fall Hosney 8:50-9:50 a.m.

Spring Busacca 2:20-3:20 p.m.

163. LITERATURE OF THE CLASSICAL WORLD. Major literary works in the classical period, and in the Graeco-Roman world.

Fall 11:05 a.m.-12:20 p.m.

164. WESTERN MEDIEVAL AND RENAISSANCE LITERATURE. Major literary works in the Middle Ages and Renaissance in the European world.

Winter Mael 11:05 a.m.-12:20 p.m.

165. WESTERN LITERATURE SINCE THE RENAISSANCE. Major literary works in the European tradition from the neo-classical era to the twentieth century.

Spring Oliver 1:15-2:15 p.m.

166-266. ASIAN AND AFRICAN LITERATURE. To be taught in alternate years as A. The literature of China and Japan, and B. The literature of India, the Near East, and Africa. *In 1969-70: B. The Literature of India, the Near East, and Africa.*

Spring 11:05 a.m.-12:20 p.m.

167-267. A PERIOD IN WORLD LITERATURE. The period selected will vary from year to year. *In 1969-70: Romanticism to Modern Revolution.*

Fall Oliver 4:30-6:00 p.m. twice a week, to be arranged.

168-268. A GENRE IN WORLD LITERATURE. The genre selected will vary from year to year. *In 1969-70: Drama: Tragedy.*

Winter Busacca 4:30-6:00 p.m. twice a week, to be arranged.

169-269. A MAJOR FIGURE IN WORLD LITERATURE. The figure will vary from year to year. *In 1969-70: Pirandello.*

Spring Mael 8:50-9:50 a.m.

170. SHAKESPEARE.

A. A general introduction to Shakespeare's work through a reading of representative plays.

Fall Howells 11:05 a.m.-12:20 p.m.

B. Advanced studies in Shakespearean drama, in which a survey knowledge of early English literature is assumed.

Winter Kurtz 10:00-11:00 a.m.

170 B. is intended for students who have taken 101 and/or 170 A. Majors who take only one of these courses are advised to take 170 B.

171. LITERATURE TODAY. Each year some aspect of the contemporary literary scene will be examined, usually in the context of its literary antecedents. *In 1969-70: New Directions and Changing Media.*

Fall Busacca 3:25-4:25 p.m.

172. TWENTIETH CENTURY POETRY. Forms, techniques, and content in the major Anglo-American poetry of this century.

Winter Harrison 8:50-9:50 a.m.

ENGLISH AND COMPARATIVE LITERATURE

180-280. CHAUCER. Study in depth in the background and writing of Chaucer.
Fall Maxwell 8:50-9:50 a.m.

181-281. MILTON. Study in depth of the poetry and selected prose of Milton.
Spring Owen 10:00-11:00 a.m.

182-282. THE RENAISSANCE PERIOD. Special studies in the literature of the English Renaissance. *In 1969-70: Types of Elizabethan Poetry.*

Winter Owen 1:15-2:15 p.m.

183-283. THE EIGHTEENTH CENTURY. Special studies in the literature of the English Restoration and the eighteenth century. *In 1969-70: Satire.*

Fall Kinder 4:30-6:00 p.m. twice a week, to be arranged.

184-284. THE NINETEENTH CENTURY. Special studies in the English Romantic and Victorian periods. *In 1969-70: The Major Romantic Poets.*

Spring Adams 4:30-6:00 p.m. twice a week, to be arranged.

185-285. LITERARY CRITICISM. Historical, theoretical, and applied criticism.

Winter Kinder 10:00-11:00 a.m.

190. SENIOR SEMINAR. An evaluation of different critical approaches to literature — their assumptions, methods, values, limitations. The chairman of the course will invite other faculty to present their ways of teaching literature through the presentation of a particular work.

Spring Owen Tues. 7:00-10:00 p.m.

199. HONORS. Independent study leading to thesis for Departmental Honors.

Each Term Staff Arrange.

301. RESEARCH. Independent research for qualified graduate students.

Each Term Staff Arrange.

305. SEMINARS IN COMPARATIVE LITERATURE. Advanced studies in the art and thought of a single major figure, in the nature and development of a literary genre, or in the character of a literary period or movement. *In 1968-69:*

Fall *Comedy* Busacca Mon. 7:00-10:30 p.m.

Winter *Short Fiction* Mon. 7:00-10:30 p.m.

Spring *Art and Thought of Thomas Mann* Oliver Mon. 7:00-10:30 p.m.

308. SEMINARS IN ANGLO-AMERICAN LITERATURE. Advanced studies in a literary period through the examination of selected figures, genres, or movements. *In 1968-69:*

Fall *William Faulkner—A Twentieth Century Voice*

Kurtz Wed. 7:00-10:30 p.m.

Winter *Middle English Studies: 1350-1400*

Maxwell Wed. 7:00-10:30 p.m.

Spring *Studies in the Eighteenth-Century English Novel*

Kinder Wed. 7:00-10:30 p.m.

490. THESIS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY. The dissertation must be of sufficient scope and length to reveal a significant contribution, scholarly and critical, in an area broad enough to require the integration of a considerable body of material.

Each Term Staff Arrange

GEOLOGY

PROFESSOR BIRMAN, *Chairman*

PROFESSOR MORRIS

ASSISTANT PROFESSOR CUMMINGS

Geology is the exploration of this planet and our neighboring planets in Space. In our courses we investigate the Earth's interior, continents, and oceans, the history and distribution of life, and the processes at work within and on the surface of the Earth. The curriculum provides for independent research, field application, and interdepartmental studies where desired.

The population explosion demands increasing utilization of this planet, and earth scientists are needed in greater numbers and increasing variety of application. Students majoring in geology receive broad undergraduate training which prepares them for graduate school, research, and teaching, or for applied work in the oil, mining, and engineering industries.

Two special interdepartmental programs lead to applied or research careers in geochemistry and geophysics. The programs are designed to give students the theoretical and applied aspects of these disciplines as they relate to (1) the understanding of the Earth and Earth processes, and (2) the exploration for mineral and oil resources.

The Occidental Geology Department is well equipped with modern analytical tools. The geological environment is excellent, and advanced students participate with faculty members in research and widely ranging field projects.

GEOLOGY MAJOR: Geology 1, 2, 41, 42, 43, 51, 52, 53, 111, 112, 113. Students planning for graduate school should take additional courses in mathematics and other sciences as advised in individual consultation.

The programs which follow are optional. Either may be chosen instead of the standard Geology major program.

INTERDEPARTMENTAL MAJOR IN GEOCHEMISTRY: Geology 1, 43, 51, 52 or 53, 111, 131; Chemistry 11, 12, 101, 102, 108. Chemistry 61, 62, and 63 are strongly recommended.

INTERDEPARTMENTAL MAJOR IN GEOPHYSICS: Geology 1, 43, 51, 52 or 53, 111, 121; Physics 11, 12, 13, 50, 110, 150.

For the geology major, the comprehensive examination is based on the required geology courses. For the interdepartmental programs, the comprehensive examination is based on the required geology and chemistry or physics courses.

1. PHYSICAL GEOLOGY. Survey of Earth structure, composition, and process.

Fall Birman Lectures: 1:15-2:15 p.m.
Cummings Laboratory: Section 1: Mon. 2:20-5:30 p.m.
Section 2: Wed. 2:20-5:30 p.m.
Section 3: Fri. 2:20-5:30 p.m.

2. HISTORICAL GEOLOGY. History of the development of the Earth and its life. *Prerequisite: Geology 1 or Natural Science 2 (Geology).*

Spring Morris Lectures: 11:05 a.m.-12:20 p.m.
Laboratory: Section 1: Mon. 2:20-5:30 p.m.
Section 2: Wed. 2:20-5:30 p.m.

10. URBAN GEOLOGY. Geologic hazards and problems such as earthquakes, landslides, ground water and surface water, and beach engineering, as they relate to the physical environment of the city. Preventive measures and legal implication of the hazards are discussed. A limited number of field trips may be arranged. *Designed primarily for nonscience majors. Prerequisite: Geology 1 or Natural Science 2 (Geology).*

Spring Cummings Lectures: 2:20-3:20 p.m.
Demonstration Laboratory: Wed. 2:20-5:30 p.m.

41. INVERTEBRATE PALEONTOLOGY. Study of development of invertebrate life as recorded in fossils; evolution; importance of life in interpreting the history of the Earth. *Prerequisite: Geology 2 or permission of instructor. Given in alternate years.*

Fall Not given in 1969-70.

42. STRUCTURAL GEOLOGY. Spatial relations of rocks of the Earth's crust, their deformation, and processes of change. *Prerequisite: Geology 2 or permission of instructor.*

Winter Morris Lectures: 1:15-2:15 p.m.
Laboratory: 3 hours arranged

43. MINERALOGY. Composition, structure, and identification of minerals; ore deposits and mining. *Prerequisite: Geology 1 or permission of instructor.*

Spring Birman Lectures: 2:20-3:20 p.m.
Laboratory: Mon.-Wed. 3:25-5:30 p.m.

51. IGNEOUS PETROLOGY. Description, identification, and genetic interpretation of the igneous rocks. *Prerequisite: Geology 43 or Geology 1 and permission of instructor.*

Fall Birman Lectures: 7:45-8:45 a.m.
Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

52. SEDIMENTARY PETROLOGY. Description, identification, and genetic interpretation of the sedimentary rocks. *Prerequisite: Geology 43 or permission of instructor.*

Winter Morris Lectures: 10:00-11:00 a.m.
Laboratory: Tues.-Thurs. 2:20-5:30 p.m.

GEOLOGY

53. METAMORPHIC PETROLOGY. Description, identification, and genetic interpretation of the metamorphic rocks. *Prerequisite: Geology 51 and 52 or Geology 43 and permission of instructor.*

Spring Cummings Lectures: 7:45-8:45 a.m.
Laboratory: Tues.-Thurs. 3:25-5:30 p.m.

111. FIELD GEOLOGY. Methods and techniques in geologic mapping. Detailed mapping and geologic interpretation of local areas. *Prerequisite: Geology 43 and permission of instructor.*

Fall Birman Lectures: Arrange
Laboratory: Saturday in field

112. ADVANCED FIELD GEOLOGY. Geologic mapping of selected field areas. *Prerequisite: Geology 111.*

Winter Cummings Arrange

113. GEOLOGY SEMINAR. Advanced topics in geology. *Prerequisite: Geology 1 and 2 and permission.*

Spring Staff Arrange 3 hours

121. GEOPHYSICS. Theoretical and applied analyses of the Earth's magnetic, gravitational, and seismic properties. *Prerequisite: Geology 1 and permission of instructor. Given in alternate years.*

Fall Cummings Not given in 1969-70.

122. ASTROGEOLOGY. Study of the physical and chemical characteristics and the interpretation of the observed features of the moon and the planets. *Prerequisite: Geology 1 and permission of instructor. Given in alternate years.*

Winter Cummings Not given in 1969-70.

131. GEOCHEMISTRY. Study of the relative and absolute abundance of elements and isotopes and the processes governing their distribution and migration in the Earth. *Prerequisite: Geology 1 and permission of instructor. Given in alternate years.*

Fall Cummings Lectures: 11:05 a.m.-12:20 p.m.
Laboratory: Thurs. 2:20-5:30 p.m.

132. OCEANOGRAPHY. Integration of physical and chemical processes of the sea. Ocean boundaries and bottom topography. *Prerequisite: Geology 1 and permission of instructor. Given in alternate years.*

Winter Cummings Lectures: 2:20-3:20 p.m.
Laboratory: Wed. 2:20-5:30 p.m.

141. VERTEBRATE PALEONTOLOGY. Study of vertebrate life as recorded in fossils with emphasis on evolution and morphology. *Given in alternate years.*

Fall Morris Lectures: 8:50-9:50 a.m.
Laboratory: Mon.-Wed. 2:20-5:30 p.m.

198. RESEARCH. *Prerequisite: permission.*

Each Term Staff Arrange

HISTORY

PROFESSOR RODES, *Chairman*
PROFESSOR ROLLE
PROFESSOR KROEBER
ASSOCIATE PROFESSOR HARRIS
ASSISTANT PROFESSOR COHEN
MR. LEAR, *Instructor*
MR. ODO, *Instructor*

Man is at the center of history. Emphasis upon both the individual and the group forms the essence of historical study. The Department of History, through its many courses, provides an understanding of man's social organization and culture. A sound knowledge of history is essential to the making of judgments about today's society, politics, and economics. Courses in this department also introduce students to the professions of law, public administration, foreign service, teaching, and library work.

MAJOR: Nine courses from this department chosen in consultation with the student's adviser. The nine courses must include History 51 (taken in the sophomore year) and two proseminars (181-183) and should be selected from at least *three* of the following areas of concentration: United States (History 100-105 or *one* course from History of Ideas, 51, 54, or 100); Europe (110-129); Far East (130-133); Latin America (144-146); Middle East (160-162); or Africa (166-168).

Details concerning the required senior comprehensive examination in History and other course advice may be obtained from the major adviser. Students anticipating graduate work are urged to acquire a reading knowledge of one foreign language.

HONORS: Majors in the department may qualify for Departmental Honors, allowing them to undertake a variety of independent projects, when advisable in conjunction with other departments. Interested students should consult the department chairman concerning details.

GRADUATE STUDY: The department offers a Master of Arts degree under the thesis plan. A reading knowledge of one foreign language is required. Interested applicants should consult the chairman for details.

HISTORY

1. HISTORICAL INVESTIGATION. Practice in the use of the library and of research methods in a project of the student's interest. *Designed for nonhistory majors, especially freshmen.*

Spring Kroeber 2:20-3:20 p.m.

25. MODERN EUROPE. A survey of Europe's political and intellectual history from the mid-seventeenth century to World War II. *For nonmajors or transfer students as substitute for a portion of History of Civilization.*

Fall Rodes 10:00-11:00 a.m.

41. THE BLACK MAN IN AMERICA. The role of the Black Man in the development of the United States from his African backgrounds to the Black Revolution of today. Special emphasis will be placed upon understanding contemporary problems in relation to the past.

Spring Cohen 8:50-9:50 a.m.

51. HISTORICAL METHOD AND HISTORIOGRAPHY. An introductory workshop in the art and craft of history, designed primarily for the sophomore History major. In conjunction with readings on the theoretical and methodological bases of historical inquiry, the student will engage in frequent exercises in historical research and writing. *Open to students from other departments upon consent of the instructor.*

Spring Lear 2:20-3:20 p.m.

100. COLONIAL AMERICA. The history of the transition of culture from the Old World to the New, with an emphasis upon the creation of new institutions and ideas.

Fall Cohen 1:15-2:15 p.m.

101. REVOLUTIONARY AMERICA AND THE NEW NATION. How revolutionary was the American experience in cause and effects? The making of the Constitution to the victory of Jacksonian Democracy.

Winter Cohen 1:15-2:15 p.m.

102. THE UNITED STATES AT MID-CENTURY. The history of the Nation from the 1830's to the Civil War and Reconstruction. Sectionalism, Manifest Destiny, Slavery, and Abolitionism.

Spring Cohen *Not given in 1969-70.*

103. THE EMERGENCE OF MODERN AMERICA. Problems after the end of the Reconstruction Era; the Rise of the American Empire; political, economic, and social crises at home, 1876-1929.

Fall Rolle 1:15-2:15 p.m.

104-204. CONTEMPORARY AMERICA. The Great Depression, the New Deal, World War II, the "cold war," and recent challenges at home and abroad.

Winter Rolle 10:00-11:00 a.m.

105-205. CALIFORNIA AND THE WEST. The role of California in the life of the Nation and the American West from Indian and Hispanic origins to the present. *Meets requirement in California State and Local Government.*

Spring Rolle 1:15-2:15 p.m.

110. ANCIENT HISTORY. Recent Aegean discoveries; trade and the emergence of the Mediterranean city-states. Comparison of social and cultural patterns in Greece and Rome.

Spring *Not given in 1969-70.*

112. MEDIEVAL EUROPE. Cathedrals, knights, and chivalry; studies in medieval thought and institutions.

Winter Lear Not given in 1969-70.

122. RENAISSANCE AND REFORMATION. An introduction to basic problems in European history from c. 1300 to 1600. Special attention will be devoted to the relationship between Renaissance humanism and programs of ecclesiastical reform and religious renewal, both Protestant and Catholic.

Fall Lear 2:20-3:20 p.m.

124-224. CONTEMPORARY EUROPE. The turbulent European scene from Lenin to De Gaulle.

Spring Rodes 8:50-9:50 a.m.

125. HISTORY OF ENGLAND. The political and cultural history of Tudor and Stuart England, 1485-1689.

Fall Not given in 1969-70.

126. GERMANY. The German experience: disunity, unification, and division. 1806 to the present.

Winter Rodes 8:50-9:50 a.m.

127-227. RUSSIA. The Russian state in the nineteenth century. Social history of radical movements, including the Revolution and its ideology.

Winter Not given in 1969-70.

128-228. SPAIN. Early cultures, feudalism, religious conflict and the rise of national culture, the Reconquest, Golden Age and world empire, and nationalization and modernization in the Iberian Peninsula.

Winter Kroeber 4:30-5:30 p.m.

129. FRANCE. The Ancien Régime, the French Revolution and its echoes. Grandeur then and now.

Spring Rodes Not given in 1969-70.

130. TRADITIONAL SOCIETY IN EAST ASIA. Japan (1600-1868) and China (1368-1839): Comparative treatment of political structure, economy, rural and urban societies, the family, and value systems. Emphasis on changes within the traditional framework.

Fall Odo 3:25-4:25 p.m.

132-232. MODERN CHINA. The impact of the West after 1839. Resistance to Western imperialism from peasant rebellions to the adoption of modern techniques, ideas, and practices. Rise of the Nationalists (Kuomintang) and the Chinese Communist Party.

Winter Odo 2:20-3:20 p.m.

133-233. THE MODERNIZATION OF JAPAN. The feudal elite and its transformation into modern nation-state leadership. Contributions by traditional sectors, including agriculture and small business, and impact of imported ideas and technology.

Spring Odo 1:15-2:15 p.m.

144-244. TWENTIETH CENTURY LATIN AMERICA. The struggle for national identity and a better life; the role of world economy, political relations, and traditional institutions in increasingly revolutionary societies.

Fall Kroeber 8:50-9:50 a.m.

HISTORY

145-245. MEXICO AND THE CARIBBEAN. Mexico from the Nahua Empire and civilization to the revolutionary culture of today, against the background of circum-Caribbean peoples, nation-building, and modern societies.

Winter Kroeber *Not given in 1969-70.*

146. ARGENTINA, BRAZIL, AND COLOMBIA. From the Spanish and Portuguese conquests to the present, examining the different roads to national culture and confrontation of modern problems in South America today.

Spring Kroeber 10:00-11:00 a.m.

160. BYZANTIUM, THE OTTOMAN EMPIRE, AND TURKEY. The traditional Near East from the founding of Constantinople to the present day — the rise and fall of two great empires and the development of the Turkish republic. *Given in alternate years.*

Fall Harris *Not given in 1969-70.*

162-262. THE ARAB STATES, ISRAEL, AND IRAN. The Arab world and the Middle East from the expansion of the Arabs and the growth of Islam to European penetration, nationalism, and American interests in this strategic area. *Given in alternate years.*

Winter Harris 1:15-2:15 p.m.

166. THE AFRICAN HISTORICAL TRADITION. Africa to the establishment of European colonies in the nineteenth century.

Fall Harris 4:30-5:30 p.m.

168. MODERN AFRICA. Africa in the twentieth century. Colonialism, nationalism, and the establishment of independent states.

Spring Harris 3:25-4:25 p.m.

181-281. PROSEMINAR. *Open to seniors, graduates, and qualified juniors only.*

Fall Cohen Section 1: The Crowd in United States History
11:05 a.m.-12:20 p.m.

Rodes Section 2: The Enlightenment in Europe
11:05 a.m.-12:20 p.m.

182-282. PROSEMINAR. *Open to seniors, graduates, and qualified juniors only.*

Winter Lear Section 1: The Italian Renaissance and Its Medieval Antecedents
11:05 a.m.-12:20 p.m.

Rolle Section 2: The Irrational and History
11:05 a.m.-12:20 p.m.

183-283. PROSEMINAR. *Open to seniors, graduates, and qualified juniors only.*

Spring Harris Section 1: Modern Africa: The Politics of Charisma
11:05 a.m.-12:20 p.m.

Odo Section 2: East Asia in Transition: Crisis of the Old Order
11:05 a.m.-12:20 p.m.

199. HONORS.

Each Term Staff Arrange

301. RESEARCH. Independent research for qualified graduate students.

Each Term Staff Arrange

HISTORY

310. SEMINAR IN AMERICAN HISTORY. Research and intensive study in American history.

Spring *Not given in 1969-70.*

311. SEMINAR IN EUROPEAN HISTORY. Research and intensive study in European history.

Spring Rodes Evenings by arrangement.

390. THESIS FOR MASTER OF ARTS DEGREE.

Each Term Staff Arrange

HISTORY OF CIVILIZATION

ASSOCIATE PROFESSOR WINTER, *Chairman*

MR. AXEEN, *Instructor (American Studies and History of Civilization)*

PROFESSOR PERKINS, ASSISTANT PROFESSOR EVERETT, MRS. WILLIAMS (*of the Department of Art*)

ASSISTANT PROFESSOR SHAFFER, MR. HUMPHREY, MR. McCONNEL (*of the Department of Economics*)

PROFESSOR BUSACCA, ASSOCIATE PROFESSOR ADAMS, ASSISTANT PROFESSOR HARRISON, ASSISTANT PROFESSOR HOWELLS, ASSISTANT PROFESSOR MAXWELL, (*of the Department of English and Comparative Literature*)

PROFESSOR KROEBER, PROFESSOR RODES, PROFESSOR ROLLE, ASSOCIATE PROFESSOR HARRIS, ASSISTANT PROFESSOR COHEN, MR. LEAR, MR. ODO (*of the Department of History*)

MR. JEFFERS (*of the Department of Music*)

ASSISTANT PROFESSOR LAUTER, ASSISTANT PROFESSOR NEBLETT (*of the Department of Philosophy*)

ASSOCIATE PROFESSOR LARE, ASSISTANT PROFESSOR CALDWELL, MRS. JAQUETTE (*of the Department of Political Science*)

PROFESSOR JENNINGS, ASSOCIATE PROFESSOR SHENFELD (*of the Department of Psychology*)

PROFESSOR BEEBE, ASSISTANT PROFESSOR BAMMEL (*of the Department of Religious Studies*)

ASSOCIATE PROFESSOR LITTLETON, MR. HILLEBRAND (*of the Department of Sociology and Anthropology*)

An integrated two-year study of the History of Civilization is given cooperatively by approximately thirty-five members of the Occidental faculty, each a specialist in one of the departments listed above. The course is based on the conviction that all phases and areas of a civilization are interwoven and can be studied together with profit. To achieve a basic understanding of our cultural heritage, professors and students in this course jointly analyze each historical stage in terms of man's social, religious, economic, and political developments, and his artistic, musical, and literary achievements. Believing that the present moment in our history can be understood only superficially without a knowledge of our cultural past, Occidental College includes History of Civilization as an essential and integral part of every student's liberal arts program.

HISTORY OF CIVILIZATION

1. HISTORY OF CIVILIZATION. A view of antiquity with attention to the foundations of world civilizations. *Required of freshmen.*

Fall Winter and
 Staff Lectures: 8:50-9:50 a.m. Thorne Hall
 Discussion Groups: *To be announced*

2. HISTORY OF CIVILIZATION. The period 450 to 1450 with emphasis on African and Oriental as well as Western civilizations. *Required of freshmen.*

Winter Winter and
 Staff Lectures: 8:50-9:50 a.m. Thorne Hall
 Discussion Groups: *To be announced*

3. HISTORY OF CIVILIZATION. Civilization from 1450 to 1700. Here the emphasis is on the Renaissance and Reformation and the expansion of Europe. *Required of freshmen.*

Spring Winter and
 Staff Lectures: 8:50-9:50 a.m. Thorne Hall
 Discussion Groups: *To be announced*

4. HISTORY OF CIVILIZATION. The period 1700 to 1850. The Enlightenment and Romanticism and the Industrial Revolution. *Required of sophomores. Prerequisite: History of Civilization 1, 2, 3, or equivalent.*

Fall Winter and
 Staff Lectures: 10:00-11:00 a.m. Thorne Hall
 Discussion Groups: *To be announced*

5. HISTORY OF CIVILIZATION. A movement toward One World. *Required of sophomores.*

Winter Winter and
 Staff Lectures: 10:00-11:00 a.m. Thorne Hall
 Discussion Groups: *To be announced*

6. HISTORY OF CIVILIZATION. Recent trends in international relations; political and social history throughout the world. *Required of sophomores.*

Spring Winter and
 Staff Lectures: 10:00-11:00 a.m. Thorne Hall
 Discussion Groups: *To be announced*

190-290. SEMINAR IN HISTORY OF CIVILIZATION. A course for a limited number of juniors, seniors, and graduates who will help with the teaching of discussion sections in the freshman-sophomore course. Admission by special arrangement with the chairman of the History of Civilization Department.

Each Term Staff

HISTORY OF IDEAS

ASSOCIATE PROFESSOR WINTER (*of the Department of History of Civilization*)

51. AMERICAN SOCIAL HISTORY. An historical study of the character and values of the American people from colonial times to the present. *Given in alternate years.*
Winter Winter *Not given in 1969-70.*

52. THE SOCIAL HISTORY OF AMERICAN ART. An historical study of American painting, music, literature, architecture, sculpture, and other arts as documents of social feeling and form. The relationship among the arts themselves and also between the arts and other social and intellectual movements, considered from colonial times to the present. *Given in alternate years.*
Spring Winter *Not given in 1969-70.*

53. THE CITY IN HISTORY. A survey of the relationship of the city to the development of civilization. *Given in alternate years.*
Winter Winter 3:25-4:25 p.m.

54. AMERICAN BIOGRAPHY. An examination of biography as an index to history. *Given in alternate years.*
Spring Winter 3:25-4:25 p.m.

100. HISTORY OF AMERICAN THOUGHT. The principal movements in American intellectual history from colonial times to the present. *Given in alternate years.*
Fall Winter *Not given in 1969-70.*

101. A HISTORY OF ESTHETICS. A study of the philosophy of beauty from Plato to Langer. *Given in alternate years.*
Fall Winter 3:25-4:25 p.m.

LANGUAGES AND LINGUISTICS

ASSOCIATE PROFESSOR BABCOCK, *Chairman*

ASSOCIATE PROFESSOR FREY

ASSISTANT PROFESSOR ALKIRE

ASSISTANT PROFESSOR RODGERS

MR. HINGOT, *Instructor*

MISS REA, *Instructor*

MR. LEIMSIDOR, *Instructor*

MR. KATSELL, *Instructor*

MISS NIETO, *Instructor*

MRS. PACKLER, *Instructor by Special Appointment*

DR. SEASE, *Instructor by Special Appointment*

MR. TRAINA, *Instructor by Special Appointment*

The curriculum in foreign languages comprises three levels of instruction: the introductory and intermediate courses; the advanced courses; the literature and graduate courses.

A sixty-three position Language Laboratory located in Johnson Hall facilitates instruction. Its use is required in all elementary and intermediate courses.

Languages 1, 2, and 3

The satisfactory completion of Language 3 or an examination of competence fulfills the college language requirement for the degree of Bachelor of Arts. Incoming students who present College Entrance Examination Board achievement scores will be placed in the language sequence according to scores achieved. Those who present scores of 550 or above are regarded as having fulfilled the language requirement of the College. Students who do not present test scores and who offer two or more years of high school language are required to take a placement examination to determine the level at which they should continue their language study. Those who score at the prescribed level will be regarded as having fulfilled the college language requirement. Language placement tests are administered by the department during orientation week in the fall term and during the first week of the spring term. Arrangements to take the test must be made with the department at least one month in advance of the test date.

Language 100, 101, and 102

These courses offer on an advanced level the study of grammar, composition, conversation, literary styles, and an introduction to the culture of the respective countries.

Language 153 and above

Literature courses conducted in the language are designed primarily for majors in the Department but open to any student with sufficient language competence.

INTERNATIONAL AND LANGUAGE CENTER: The International and Language Center, located in Eileen Norris Residence Halls, is designed to promote interest in the study and social use of foreign languages outside the classroom. A number of dormitory accommodations are provided for language students interested in this opportunity to use foreign languages in an informal atmosphere.

LINGUISTICS: A program in linguistics is being progressively developed. The present courses are an integral part of the departmental curriculum and are strongly recommended for students majoring in languages, whether for teaching, preparing for an advanced degree or specialized professional objectives.

DEPARTMENTAL MAJORS: Offered in French, German, Russian, and Spanish. The requirement for a major consists of eight courses chosen in consultation with the major adviser from those numbered 101 and above, and at least one course in Linguistics. It is recommended that majors take Religious Studies 1, an appropriate History course, one course in Art History, and at least one course in English or Comparative Literature. Details concerning the senior comprehensive examination and departmental reading lists may be obtained from the major adviser.

GROUP MAJOR: Consists of courses 101 and 102 and three literature courses chosen from those numbered above 150 in each of two languages. Courses in each language must be taken in at least two different literary periods. Comprehensive examinations are required in each language.

HONORS: Majors in the department may qualify for Departmental Honors at graduation through individual study in depth of a literary figure, genre, or movement, including an honors thesis. Consult the department chairman concerning details.

GRADUATE PROGRAM: Students enrolled for the Master of Arts degree in French, German, or Spanish are directed to pages 25-31 for general college requirements. The Department of Languages and Linguistics normally requires a thesis and a reading knowledge of a second foreign language. Consult the department chairman for details.

The Master of Arts program is projected to include three special aims: (1) the pre-Ph.D. in literary studies (M.A.-Lit.); (2) the Master of Arts in Teaching (M.A.T.) program, preparing candidates to teach at appropriate levels, and (3) the Master of Arts in the Teaching of English to Speakers of Spanish (M.A.-T.E.S.S.).

FRENCH

FRACTIONAL COURSE. 1/6 course credit.

X3. INTERMEDIATE CONVERSATION. Oral practice based upon articles in current periodicals and on prepared subjects of general interest. Designed primarily for students who have completed French 3 and who do not plan to enroll in advanced courses. *Prerequisite: French 3 or consent of instructor.*

Fall Tues.-Thurs. 3:25-4:25 p.m.

FULL COURSES.

1. ELEMENTARY FRENCH. Pronunciation. Intensive oral drills, grammar, reading, introductory free conversation, and writing.

Fall Hingot and Staff Section 1: 7:45-8:45 a.m.
Section 2: 7:45-8:45 a.m.
Section 3: 1:15-2:15 p.m.

2. ELEMENTARY FRENCH. Continuation of French 1.

Winter Hingot and Staff Section 1: 7:45-8:45 a.m.
Section 2: 7:45-8:45 a.m.
Section 3: 1:15-2:15 p.m.
Section 4: 2:20-3:20 p.m.

3. INTERMEDIATE FRENCH. Advanced grammar, conversation, reading, and composition. Cultural readings and discussions. *Prerequisite: French 2 or equivalent.*

Fall Hingot and Staff Section 1: 7:45-8:45 a.m.
Section 2: 2:20-3:20 p.m.

Spring Hingot and Staff Section 1: 7:45-8:45 a.m.
Section 2: 7:45-8:45 a.m.*
Section 3: 1:15-2:15 p.m.
Section 4: 2:20-3:20 p.m.

100. ADVANCED FRENCH. Advanced oral work, composition, and grammar; study of corrective phonetics; emphasis on current events. *Prerequisite: French 3 or equivalent.*

Fall Rea Section 1: 11:05 a.m.-12:20 p.m.
Rodgers Section 2: 11:05 a.m.-12:20 p.m.

Winter Rodgers 11:05 a.m.-12:20 p.m.

* Emphasis of course is on reading skills.

LANGUAGES AND LINGUISTICS

101. ADVANCED FRENCH. Introduction to techniques of literary analysis in poetry, novel, and theater. Emphasis on *explication de textes*. Continuation of corrective phonetics. *Prerequisite: French 100 or equivalent.*

Winter Rea Section 1: 11:05 a.m.-12:20 p.m.
 Rodgers Section 2: 1:15-2:15 p.m.

Spring Rodgers 11:05 a.m.-12:20 p.m.

102. INTRODUCTION TO FRENCH CIVILIZATION. A general survey of French civilization with continued emphasis on language improvement. *Prerequisite: French 101 or equivalent.*

Spring Rea 11:05 a.m.-12:20 p.m.

153-253. SURVEY OF FRENCH LITERATURE OF THE MIDDLE AGES AND THE RENAISSANCE. *Prerequisite: French 102. Given in alternate years.*

Fall Rodgers Not given in 1969-70.

154-254. SURVEY OF FRENCH LITERATURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES. Emphasis on the drama of the classical period and the history of ideas. Enlightenment, Pre-Romanticism, Extensive readings. Lectures, discussion, reports. *Prerequisite: French 102 or permission of instructor. Given in alternate years.*

Winter Rodgers Not given in 1969-70.

155-255. LITERATURE OF THE ROMANTIC PERIOD. Emphasis on poetry and drama. Readings of Chateaubriand, Hugo, Lamartine, Musset, Vigny. *Prerequisite: French 102 or permission of instructor. Given in alternate years.*

Fall Rea 1:15-2:15 p.m.

156-256. LITERATURE FROM THE END OF THE ROMANTIC PERIOD TO THE END OF THE NINETEENTH CENTURY. Emphasis on the novels of Balzac, Stendhal, Flaubert, and Zola. *Prerequisite: French 102 or permission of instructor. Given in alternate years.*

Winter Rea 1:15-2:15 p.m.

157-257. THE NOVEL OF THE TWENTIETH CENTURY. Novels by Proust, Gide, Malraux, Camus, Sartre, and Robbe-Grillet. *Prerequisite: French 102 or permission of instructor. Given in alternate years.*

Spring Hingot 1:15-2:15 p.m.

158-258. THEATER AND POETRY OF THE TWENTIETH CENTURY. *Prerequisite: Permission of instructor. Given in alternate years.*

Spring Rea Not given in 1969-70.

160-260. SEMINAR IN PERIOD. *Given in alternate years.* Offered in 1969-70: "Contemporary African Literature of French Expression." Works by Senghor, Laye, Kane, Insmame, Beti, Oyono. *Prerequisite: Permission of instructor.*

Winter Hingot 3:25-4:25 p.m.

170-270. SEMINAR IN MAJOR LITERARY FIGURE. *Given in alternate years.* Offered in 1969-70: Rousseau. *Prerequisite: Permission of instructor.*

Fall Rodgers 3:25-4:25 p.m.

180-280. SEMINAR IN GENRE. Poetry of Baudelaire, Verlaine, Rimbaud, Mallarmé. *Prerequisite: Permission of instructor.*

Spring Rea 3:25-4:25 p.m.

197. SPECIAL TOPICS. Individual study of a major author, movement, or genre. For students with advanced competence who seek study in an area not included in the department's curriculum. *Prerequisite: Approval of the department.*

Each Term Staff Arrange

199. HONORS.

Each Term Staff Arrange

301. RESEARCH. Independent research for qualified graduate students.

Each Term Staff Arrange

390. THESIS FOR DEGREE OF MASTER OF ARTS.

Each Term Staff Arrange

GERMAN

FRACTIONAL COURSE. 1/6 course credit.

X3. INTERMEDIATE CONVERSATION. Oral practice based upon articles in current periodicals and on prepared subjects of general interest. Designed primarily for students who have completed German 3 and who do not plan to enroll in advanced courses. *Prerequisite: German 3 or permission of instructor.*

Fall Tues.-Thurs. 3:25-4:25 p.m.

FULL COURSES.

1. ELEMENTARY GERMAN. Pronunciation. Grammar, intensive oral drills, introductory reading and conversation.

<i>Fall</i>		Section 1: 7:45-8:45 a.m.
	Frey	Section 2: 8:50-9:50 a.m.
	Sease	Section 3: 11:05 a.m.-12:20 p.m.
	Babcock	Section 4: 1:15-2:15 p.m.

2. ELEMENTARY GERMAN. Continuation of German 1.

<i>Winter</i>		Section 1: 7:45-8:45 a.m.
	Frey	Section 2: 8:50-9:50 a.m.
	Sease	Section 3: 11:05 a.m.-12:20 p.m.
	Babcock	Section 4: 1:15-2:15 p.m.

3. INTERMEDIATE GERMAN. Grammar review. Conversation and composition. Discussion of cultural readings and literary selections. *Prerequisite: German 2 or equivalent.*

<i>Fall</i>	Sease	1:15-2:15 p.m.
<i>Spring</i>	Sease	Section 1: 7:45-8:45 a.m.
	Babcock	Section 2: 8:50-9:50 a.m.*
		Section 3: 11:05 a.m.-12:20 p.m.
	Frey	Section 4: 1:15-2:15 p.m.

100. ADVANCED GERMAN. Advanced grammar. Reading and discussion of modern German literature. Lectures and discussions concerning contemporary culture. *Prerequisite: German 3 or equivalent.*

<i>Fall</i>	Frey	11:05 a.m.-12:20 p.m.
<i>Winter</i>	Babcock	11:05 a.m.-12:20 p.m.

101. ADVANCED COMPOSITION AND CONVERSATION. Discussion of current affairs; oral and written reports; composition and style. *Prerequisite: German 100 or equivalent.*

<i>Winter</i>	Frey	11:05 a.m.-12:20 p.m.
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*Emphasis of course is on reading skills.

LANGUAGES AND LINGUISTICS

102. INTRODUCTION TO GERMAN LITERATURE. General survey of German literature. Lectures on major writers, movements, genres, and works; representative readings; introduction to techniques of literary analysis. *Prerequisite: German 100 or equivalent.*

Spring Sease 11:05 a.m.-12:20 p.m.

153. THE ENLIGHTENMENT AND STORM AND STRESS. Lessing, and the early works of Goethe and Schiller. *Prerequisite: German 102 or permission of instructor. Given in alternate years.*

Winter Babcock Not given in 1969-70.

154. GERMAN CLASSICISM. Dramas and poetry of Goethe and Schiller; study of selected critical works and essays. *Prerequisite: German 102 or permission of instructor. Given in alternate years.*

Spring Babcock Not given in 1969-70.

155. ROMANTICISM. Representative literature of the Romantic movement in Germany. *Prerequisite: German 102 or permission of instructor. Given in alternate years.*

Fall Babcock 3:25-4:25 p.m.

156. REALISM AND NATURALISM. Survey of German literature from 1830 to 1900. Emphasis on Grillparzer, Hebbel, Hauptmann, Stifter, Keller, Storm.

Prerequisite: German 102 or permission of instructor. Given in alternate years.

Spring Babcock 11:05 a.m.-12:20 p.m.

157. IMPRESSIONISM AND EXPRESSIONISM. Representative works of German literature between 1900 and 1933. *Prerequisite: German 102 or permission of instructor. Given in alternate years.*

Spring Frey 3:25-4:25 p.m.

158-258. CONTEMPORARY LITERATURE. Representative works of German literature since World War II. *Prerequisite: German 102 or permission of instructor. Given in alternate years.*

Spring Frey Not given in 1969-70.

170-270. SEMINAR IN GENRE. An examination of the development and the character of a particular literary genre. Offered in 1969-70: Study of representative poetry from Middle Ages to the present. *Prerequisite: Permission of instructor. Given in alternate years.*

Winter Sease 3:25-4:25 p.m.

180-280. SEMINAR IN A MAJOR FIGURE. A study in depth of the work of a major writer. *Prerequisite: Permission of instructor. Given in alternate years.*

Spring Frey Not given in 1969-70.

197. SPECIAL TOPICS. Individual study of a major author, movement or genre. For students with advanced competence who seek study in an area not included in the department's curriculum. *Prerequisite: Approval of the department.*

Each Term Staff Arrange

199. HONORS.

Each Term Staff Arrange

301. RESEARCH. Independent research for qualified graduate students.

Each Term Staff Arrange

390. THESIS FOR DEGREE OF MASTER OF ARTS.

Each Term Staff Arrange

RUSSIAN

1. ELEMENTARY RUSSIAN. The printed and written alphabets; introduction to pronunciation and grammar; intensive oral drills and conversation.

Fall Katsell Section 1: 7:45-8:45 a.m.

 Packler Section 2: 10:00-11:00 a.m.

2. ELEMENTARY RUSSIAN. Continuation of Russian 1.

Winter Katsell Section 1: 7:45-8:45 a.m.

 Packler Section 2: 10:00-11:00 a.m.

3. INTERMEDIATE RUSSIAN. Continuation of Russian 2. *Prerequisite: Russian 2 or equivalent.*

Spring Katsell Section 1: 7:45-8:45 a.m.

 Katsell Section 2: 10:00-11:00 a.m.

100. ADVANCED RUSSIAN. The verbal aspects; participles; word formation; an analysis of the Russian phonetic system. *Prerequisite: Russian 3 or equivalent.*

Fall Packler 11:05 a.m.-12:20 p.m.

101. ADVANCED COMPOSITION AND CONVERSATION. Intensive review of grammar; conversation and composition based upon current Soviet materials. *Prerequisite: Russian 100 or equivalent.*

Winter Packler 11:05 a.m.-12:20 p.m.

102. INTRODUCTION TO THE LITERARY HISTORY AND CULTURE OF RUSSIA. Conversation and composition based upon readings and lectures on the literary history and culture of Russia before the Communist Revolution. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Spring Alkire Not given in 1969-70.

153. PUSHKIN AND HIS CONTEMPORARIES. Zhukovsky; the poetry and prose of Pushkin; Lermontov; Gogol. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Fall Alkire Not given in 1969-70.

154. RUSSIAN REALISTIC FICTION. Aksakov; Goncharov; Turgenev. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Winter Alkire Not given in 1969-70.

155. THE AGE OF CLASSICISM. Lomonosov; Sumarokov; Fonvizin; Derzhavin; Radishchev; Karamzin. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Spring Alkire Not given in 1969-70.

156. THE NOVELS OF DOSTOEVSKY AND TOLSTOY. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Fall Katsell 8:50-9:50 a.m.

LANGUAGES AND LINGUISTICS

157. MASTERPIECES OF RUSSIAN DRAMA. Fonvizin; Griboedov; Gogol; Turgenev; Ostrovsky; Chekhov. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Winter Katsell 8:50-9:50 a.m.

158. SURVEY OF SOVIET LITERATURE. Russian prose fiction, poetry, and drama since 1917. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Spring Packler 8:50-9:50 a.m.

159. INTRODUCTION TO THE LITERARY HISTORY AND CULTURE OF THE SOVIET UNION. Conversation and composition based upon readings and lectures on Russian literary history and culture since 1917. *Prerequisite: Russian 101 or equivalent. Given in alternate years.*

Packler Spring 11:05 a.m.-12:20 p.m.

197. SPECIAL TOPICS. Individual study of a major author, movement, or genre. For students with advanced competence who seek study in an area not included in the department's curriculum. *Prerequisite: Approval of the department.*

Each Term Staff Arrange

199. HONORS.

Each Term Staff Arrange

SPANISH

1. ELEMENTARY SPANISH. Pronunciation. Grammar, intensive oral drills, reading, introduction to free conversation, and writing.

Fall Section 1: 7:45-8:45 a.m.
Nieto Section 2: 1:15-2:15 p.m.

2. ELEMENTARY SPANISH. Continuation of Spanish 1.

Winter Leimsidor Section 1: 7:45-8:45 a.m.
and Staff Section 2: 1:15-2:15 p.m.

3. INTERMEDIATE SPANISH. Advanced grammar. Conversation, reading, and composition. Cultural readings and discussions. *Prerequisite: Spanish 2 or equivalent.*

Fall Leimsidor 1:15-2:15 p.m.
Spring Nieto Section 1: 7:45-8:45 a.m.
and Staff Section 2: 1:15-2:15 p.m.

100. ADVANCED SPANISH. Readings and discussion of modern Spanish prose, with emphasis upon enlarging vocabulary and increasing fluency. *Prerequisite: Spanish 3 or equivalent.*

Fall Nieto 11:05 a.m.-12:20 p.m.
Winter Leimsidor 11:05 a.m.-12:20 p.m.

101. ADVANCED COMPOSITION AND CONVERSATION. Intensive practice in the spoken language through discussion of current affairs; oral and written reports; composition and style. *Prerequisite: Spanish 100 or equivalent.*

Winter Nieto 1:15-2:15 p.m.

102. INTRODUCTION TO LITERATURE. Readings and lectures on literary movements, genres, and representative authors. Introduction to techniques of literary analysis. *Prerequisite: Spanish 100 or equivalent.*

Spring Leimsidor 1:15-2:15 p.m.

LANGUAGES AND LINGUISTICS

153-253. LITERATURE OF THE MIDDLE AGES AND THE RENAISSANCE. *Prerequisite: Spanish 102. Given in alternate years.*

Fall Leimsidor Not given in 1969-70.

154-254. LITERATURE OF THE GOLDEN AGE. Spanish literature (prose and theater) from 1550 to 1650. *Prerequisite: Spanish 102. Given in alternate years.*

Winter Leimsidor Not given in 1969-70.

155-255. THE NEOCLASSIC AND ROMANTIC PERIODS. *Prerequisite: Spanish 102 or equivalent. Given in alternate years.*

Spring Leimsidor Not given in 1969-70.

156. CONTEMPORARY LITERATURE. Spanish literature from the end of the nineteenth century to the present. *Prerequisite: Spanish 102 or equivalent. Given in alternate years.*

Spring Leimsidor 3:25-4:25 p.m.

157. SPANISH-AMERICAN LITERATURE. From the time of the Spanish conquest to the end of the nineteenth century. *Prerequisite: Spanish 102 or equivalent. Given in alternate years.*

Winter Nieto 11:05 a.m -12:20 p.m.

158. SPANISH-AMERICAN LITERATURE. From the end of nineteenth century to the present. *Prerequisite: Spanish 102 or equivalent. Given in alternate years.*

Spring Nieto 11:05 a.m.-12:20 p.m.

160-260. SEMINAR IN PERIOD OR LITERARY MOVEMENT. *Given in alternate years.*

Winter Nieto Not given in 1969-70.

170-270. SEMINAR IN GENRE. *Offered in 1969-70: Lyric Poetry of the Renaissance and Golden Age. Prerequisite: Permission of instructor. Given in alternate years.*

Fall Leimsidor 3:25-4:25 p.m.

180-280. SEMINAR IN MAJOR FIGURE. A study in depth of the work of a major writer. *Offered in 1969-70: Lope de Vega, Tirso, and Calderon.*

Winter Leimsidor 3:25-4:25 p.m.

197. SPECIAL TOPICS. Individual study of a major author, movement, or genre. For students with advanced competence who seek study in an area not included in the department's curriculum. *Prerequisite: Approval of the department.*

Each Term Staff Arrange

199. HONORS.

Each Term Staff Arrange

301. RESEARCH. Independent research for qualified graduate students.

Each Term Staff Arrange

390. THESIS FOR DEGREE OF MASTER OF ARTS.

Each Term Staff Arrange

LINGUISTICS

Courses in linguistics are open to students from other departments, subject to permission of the instructor. They are recommended for language majors. Anthropology 150 (Language and Culture) and 151-251 (Historical Linguistics) supplement the work given in this department.

LANGUAGES AND LINGUISTICS

100. LINGUISTIC SCIENCE I. The scope and objectives of contemporary descriptive linguistics. Historical background. Phonology, morphology, and syntax.

Fall Traina 11:05 a.m.-12:20 p.m.

101. LINGUISTIC SCIENCE II. Continuation. *Prerequisite: Permission of instructor.*

Winter Traina 11:05 a.m.-12:20 p.m.

110-210. LINGUISTICS AND SECOND LANGUAGE TEACHING. The application of certain aspects of linguistics to foreign language teaching. *Prerequisite: Permission of instructor.*

Spring Traina 11:05 a.m.-12:20 p.m.

198. SPECIAL TOPICS. Individual study of selected topics in contemporary linguistics. Open to students seeking competence in such areas as transformational techniques, computation and linguistics, machine translation, etc.

Each Term Arrange

MATHEMATICS

ASSOCIATE PROFESSOR ROBERTSON, *Chairman*

PROFESSOR SEEKINS

PROFESSOR BARNES

PROFESSOR CULLEY

ASSISTANT PROFESSOR SWICK

ASSISTANT PROFESSOR LARMORE

ASSISTANT PROFESSOR MOSCHOVAKIS

MR. FREEDMAN, *Lecturer*

The Department of Mathematics aims (1) to give preparation to those students who look toward professional mathematics after graduation in teaching, in research, in government service, or in industrial applications, (2) to provide the necessary mathematical tools for students of scientific subjects, and (3) to offer to all students the fundamental cultural values of mathematics.

A modern computing center, featuring an IBM 1620, Model II, is available for student use. Instruction in its capabilities and applications is offered as fractional courses (Mathematics X1-X5).

MAJOR: The two year-long sequences 41, 42, 43 and 61, 62, 63 incorporate the proposed basic program recommended by the Mathematical Association of America. (GCMC courses 1, 2, 2P, 3, 4, and 5). The minimum requirement for the A.B. is these two sequences and four courses from those numbered above 100. Students will normally exceed this minimum in accordance with their objectives and in consultation with their advisers. All prospective freshman majors are urged to prepare thoroughly in order to qualify for Mathematics 41 in their first term.

GRADUATE STUDY: See pages 25-31 for the overall requirements for the M.A.T. in Mathematics. The minimum mathematics requirement is eight courses from those numbered above 100. Specific courses should be chosen after consultation with a department adviser.

SERVICE COURSES: Mathematics 1 is designed primarily for prospective elementary school teachers. Mathematics 19 is prerequisite to several courses in other departments. The Mathematics 20, 21, 22, 23 sequence

MATHEMATICS

is designed for majors in other fields whose work requires these topics. The 41, 42, 43 and 61, 62, 63 sequences are appropriate for a wide range of majors in the natural and social sciences.

FRACTIONAL COURSES. $\frac{1}{3}$ course credit. *Given only on a Pass/Fail basis. \$3.00 computer use fee for each course covering cards and materials.*

X1. INTRODUCTION TO COMPUTER PROGRAMMING. How computers work, communicating with computers, flow charts, simple problems.

Fall Seekins Arrange

Winter Robertson Arrange

X2. COMPUTERS AND SOCIETY. Study of computer technology: effect on economic institutions, government, and education.

Spring Seekins Arrange

X3. FORTRAN PROGRAMMING WITH APPLICATIONS IN THE SOCIAL SCIENCES. Use of the disk and subroutines on the IBM 1620. *Prerequisite: Mathematics X1 or permission of instructor.*

Winter Robertson Arrange

Spring Seekins Arrange

X4. FORTRAN PROGRAMMING WITH APPLICATIONS IN THE NATURAL SCIENCES. Use of the disk and subroutines on the IBM 1620. *Prerequisite: Mathematics X1 or permission of instructor.*

Fall Seekins Arrange

Winter Robertson Arrange

X5. TOPICS IN COMPUTING. Independent work under supervision in various areas of computing. This course may be taken more than once for credit. *Prerequisite: Mathematics X3 or X4.*

Fall Seekins Arrange

Spring Seekins Arrange

FULL COURSES.

1. BASIC CONCEPTS OF MATHEMATICS. The fundamentals of elementary mathematics: sets, postulates, numbers, operations.

Spring Seekins 8:50-9:50 a.m.

19. STATISTICS. Comprehensive study of measures of central tendency, variation, the normal curve, significance of difference and linear correlations.

Each Term Culley 11:05 a.m.-12:20 p.m.

20. ELEMENTARY ANALYSIS. Functions, graphs, analytic geometry, algebra, trigonometry.

Fall Seekins Section 1: 7:45-8:45 a.m.

Seekins Section 2: 1:15-2:15 p.m.

21. INTRODUCTORY CALCULUS I. The elements of one-variable calculus, linear algebra, differential equations, and multivariable calculus. First of a three-term sequence. *Prerequisite: Mathematics 20 or permission of the department.*

Winter Seekins Section 1: 7:45-8:45 a.m.

Larmore Section 2: 7:45-8:45 a.m.

Larmore Section 3: 11:05 a.m.-12:20 p.m.

Seekins Section 4: 1:15-2:15 p.m.

22. INTRODUCTORY CALCULUS II. Continuation. *Prerequisite: Mathematics 21.*

<i>Spring</i>	Swick	Section 1: 7:45-8:45 a.m.
	Moschovakis	Section 2: 11:05 a.m.-12:20 p.m.

23. INTRODUCTORY CALCULUS III. Continuation. *Prerequisite: Mathematics 22.*

<i>Fall</i>	Swick	7:45-8:45 a.m.
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41. INTRODUCTORY ANALYSIS I. A comprehensive study of calculus, with an introduction to linear algebra, vector algebra, and differential equations. First of a three-term sequence. *Prerequisite: Permission of the department.*

<i>Fall</i>	Robertson	Section 1: 7:45-8:45 a.m.
	Larmore	Section 2: 7:45-8:45 a.m.
	Moschovakis	Section 3: 11:05 a.m.-12:20 p.m.
	Robertson	Section 4: 1:15-2:15 p.m.

42. INTRODUCTORY ANALYSIS II. Continuation. *Prerequisite: Mathematics 41.*

<i>Winter</i>	Barnes	Section 1: 7:45-8:45 a.m.
	Swick	Section 2: 7:45-8:45 a.m.
	Swick	Section 3: 11:05 a.m.-12:20 p.m.

43. INTRODUCTORY ANALYSIS III. Continuation. *Prerequisite: Mathematics 42.*

<i>Spring</i>	Barnes	Section 1: 7:45-8:45 a.m.
	Robertson	Section 2: 7:45-8:45 a.m.
	Freedman	Section 3: 11:05 a.m.-12:20 p.m.

61. ADVANCED ANALYSIS I. Multivariable calculus, differential equations, with an introduction to probability, complex variables, and numerical analysis. First of a three-term sequence. *Prerequisite: Mathematics 43.*

<i>Fall</i>	Barnes	Section 1: 7:45-8:45 a.m.
	Barnes	Section 2: 8:50-9:50 a.m.

62. ADVANCED ANALYSIS II. Continuation. *Prerequisite: Mathematics 61.*

<i>Winter</i>	Freedman	Section 1: 7:45-8:45 a.m.
	Moschovakis	Section 2: 8:50-9:50 a.m.

63. ADVANCED ANALYSIS III. Continuation. *Prerequisite: Mathematics 62.*

<i>Spring</i>	Larmore	Section 1: 7:45-8:45 a.m.
	Larmore	Section 2: 8:50-9:50 a.m.

130-230. HIGHER GEOMETRY. Various geometries: projective, affine, euclidean, *Prerequisite: Mathematics 22 or 42.*

<i>Spring</i>	Freedman	2:20-3:20 p.m.
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132-232. THEORY OF NUMBERS. Selected topics in congruences, theory of primes, algebraic number theory. *Prerequisite: Mathematics 22 or 42. Given in alternate years.*

<i>Winter</i>	Freedman	10:00-11:00 a.m.
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134-234. SET THEORY. Informal axiomatic theory. *Prerequisite: Mathematics 22 or 42. Given in alternate years.*

<i>Winter</i>	Freedman	Not given in 1969-70.
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136-236. MATHEMATICAL LOGIC. Introduction to modern logic, recursive functions, and model theory. *Prerequisite: Mathematics 22 or 42. Given in alternate years.*

<i>Spring</i>	Freedman	Not given in 1969-70.
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MATHEMATICS

138-238. ALGEBRAIC STRUCTURES. Groups, rings, fields. *Prerequisite: Mathematics 22 or 42.*

Fall Moschovakis 8:50-9:50 a.m.

140-240. ADVANCED PROGRAMMING. Topics from number theory. Linear programming methods. Systematic and random search. Study of optimization problems. *Prerequisite: Mathematics 22 or 42 and three Mathematics X courses.*

Winter Robertson 1:15-2:15 p.m.

142. NUMERICAL ANALYSIS. Methods of obtaining numerical solutions of equations, including differential equations, with applications to high speed computers. *Prerequisite: Mathematics 63, X4 and X5.*

Spring Robertson 11:05 a.m.-12:20 p.m.

160. REAL ANALYSIS. Theory of functions of a real variable. *Prerequisite: Mathematics 63.*

Fall Larmore 11:05 a.m.-12:20 p.m.

162. COMPLEX ANALYSIS. Theory of functions of a complex variable. *Prerequisite: Mathematics 63.*

Winter Barnes 8:50-9:50 a.m.

164. PROBABILITY. The application of calculus to the study of probability. *Prerequisite: Mathematics 63.*

Spring Barnes 8:50-9:50 a.m.

166. DIFFERENTIAL EQUATIONS. Theory and solution of ordinary and partial differential equations. Initial and boundary value problems. *Prerequisite: Mathematics 63.*

Spring Swick 1:15-2:15 p.m.

168. MATRIX THEORY. Matrices and linear transformations. *Prerequisite: Mathematics 63.*

Fall Swick 10:00-11:00 a.m.

170. TOPOLOGY. Introduction to point set and general topology. *Prerequisite: Mathematics 63 or permission of instructor. Given in alternate years.*

Spring Moschovakis 10:00-11:00 a.m.

192-292. SEMINAR. *Prerequisite: Permission of the department.*

Winter Moschovakis 11:05 a.m.-12:20 p.m.

197. SPECIAL TOPICS.

Each Term Staff Arrange

MUSIC

PROFESSOR JONES, *Chairman*

PROFESSOR SWAN

PROFESSOR GROSS

ASSOCIATE PROFESSOR FRODSHAM

ASSOCIATE PROFESSOR MCKERNAN

ASSOCIATE PROFESSOR LAURIDSEN

ASSISTANT PROFESSOR PRICHARD

MR. JEFFERS, *Instructor*

By Special Appointment: MRS. BAKER, MISS BAUM, MR. DENNING, MR. DI TULLIO, MR. KESTENBAUM, MRS. LOTT, MR. MUGGERIDGE, MR. NOWLIN, MR. PYLE, MR. REMSEN, DR. ROBERTS, MR. SABIN, MR. SEGALL, MR. SHAFFER, MR. STEVENS

The purpose of the Music Department is the advancement of the appreciation and expression of this art among students who desire to become performers, composers, teachers, or simply intelligent lovers of music. The curricular work accordingly is planned for all these types; individual instruction is made available in piano, voice, organ, violin, cello, and other instruments; and group instruction is offered in choral and instrumental organizations. Adequate opportunity for public appearance is an essential part of the program of this department.

MAJOR: Twelve courses from this department chosen in consultation with the major adviser. The following courses are required of all majors: Music 14, 15, 16, 17, 18, 104, 105, 106. Proficiency in piano must be established before the senior year. Additional courses will be chosen according to one of the areas of musical emphasis:

(A) COMPOSITION: Music 109, 110, 111, 118.

(B) PERFORMANCE:

Conducting: Music 132, 133 and two courses from the following chosen in consultation with a faculty adviser: Music 118, 131, 134, 137, 139, X161, X162, X163, or three terms of applied music, both lessons and ensemble.

MUSIC

Recital: Three courses taken in the junior and senior years, to consist of (a) one course accumulation of fractional credits for private lessons; (b) one course accumulation of fractional credits for "Collegium Musicum" and appropriate ensembles; (c) one course from the following (chosen in consultation with a faculty adviser): 125, 126, 127, 139, or an appropriate Independent Study course.

(C) HISTORY OF MUSIC: Three courses from the following: Music 125, 126, 127, 133, 139. One course combining fractional credits received for participation in at least two different ensembles.

(D) MUSIC EDUCATION: 132, 133; either 134 or 137; one course as an accumulation of fractional credits for applied music, including X161, X162, X163, X170. In addition, Education 140 must be completed before the degree can be granted.

HONORS: Qualified majors may achieve Departmental Honors at graduation through completion of a program which includes independent study and a recital or composition of unusual merit. Students normally enter this program at the beginning of the junior year. Consult the department chairman for details.

GRADUATE PROGRAM: The department offers programs leading to the degree of Master of Arts in the subject areas of Composition, Musicology, and Performance. Qualified candidates normally follow the Creative Work Plan (p. 29 (b)) in Composition; the Thesis Plan (p. 29 (a)) in Musicology and related areas of theory and literature; and the Seminar Plan (p. 29 (c)) for Performance, which includes the presentation of a graduate recital as one of the seminar projects.

The current year sees the initiation of a music program leading to the Master of Arts in Teaching degree. This requires the completion of the following courses: Music 312, and three courses selected from Music 225, 227, 237, 239 in consultation with an adviser: Education 250-51 and 202. (For general requirements under the M.A.T. program, see pp. 27-28). The candidates internship assignment will involve music performance as part of the teaching concentration on which he will be judged.

THEORETICAL MUSIC

14. COUNTERPOINT. Melody writing, organum, two and three voice specie counterpoint, two-part invention, canon, round.

Fall 11:05 a.m.-12:20 p.m.

15. HARMONY I. Triads, harmonization of melodies, four-part hymn writing, figured bass realization.

Winter McKernan 11:05 a.m.-12:20 p.m.

16. HARMONY II. Modulation, embellishing tones and chords, chorales, part-song forms.

Spring Jeffers 7:45-8:45 a.m.

17. ADVANCED HARMONY AND COUNTERPOINT. Chromatic and polytonal harmony, analysis, fugue.

Fall Jeffers 7:45-8:45 a.m.

18. ORCHESTRATION. Essential characteristics of instruments. Practice in scoring for string, woodwind, brass, and percussion in choirs and in combination. Arranging for voice alone, and in combination with instruments. *Prerequisite: permission of instructor.*

Winter Jones 8:50-9:50 a.m.

102. MUSIC IN THE AMERICAS. A nontechnical approach to the understanding of contemporary music of the Americas. Field trips, concerts, guest artists, and composers.

Spring McKernan 7:45-8:45 a.m.

104. LITERATURE AND MATERIALS I. An integrated course, combining the music history of a given period with an analysis of the styles and techniques developed. From the Greeks through the early eighteenth century. *Prerequisite: Music 18.*

Spring 11:05 a.m.-12:20 p.m.

105. LITERATURE AND MATERIALS II. Late eighteenth and nineteenth centuries. Detailed analyses of Classic and Romantic forms and styles. Chromaticism and Cyclicism. *Prerequisite: Music 104.*

Fall Jones 8:50-9:50 a.m.

106. LITERATURE AND MATERIALS III. The first half of the twentieth century. The new tonal systems of Debussy, Schoenberg, Hindemith, Bartok, and the forms and techniques of their music. Significant developments in music in the Americas. Serialism, chance music, and other current experimentation. *Prerequisite: Music 105.*

Winter Gross 7:45-8:45 a.m.

107. MASTERWORKS OF MUSIC I. Great compositions of the Renaissance through the Classical periods studied by using the techniques of listening, discussion, and analysis. Emphasis on great composers from Palestrina and Byrd to Bach, Mozart, and Haydn. *For nonmusic majors.*

Fall McKernan 11:05 a.m.-12:20 p.m.

108. MASTERWORKS OF MUSIC II. Emphasis on 19th century composers, Beethoven, Schubert, Chopin, Schumann, Brahms, and Strauss, and their contemporaries. Concerts and criticism. *For nonmusic majors.*

Winter Jeffers 11:05 a.m.-12:20 p.m.

109-209. COMPOSITION SEMINAR I. Writing exercises to develop technique and facility with particular attention paid to melodic, harmonic, and rhythmic idioms and forms developed in this century. Individual creative projects, including composition in many of the large instrumental and vocal forms. *Prerequisite: Music 104, or approved equivalent.*

Fall Jeffers 8:50-9:50 a.m.

MUSIC

110-210. COMPOSITION SEMINAR II. Continuation.

Spring Gross 7:45-8:45 a.m.

111-211. COMPOSITION SEMINAR III. Continuation. *Prerequisite: Music 109, 110.*

Fall Jeffers 8:50-9:50 a.m.

Spring Gross 7:45-8:45 a.m.

118-218. ADVANCED ORCHESTRATION. Scoring for orchestra and for other vocal and instrumental groups. *Given in alternate years.*

Winter Gross Not given in 1969-70

125-225. SYMPHONIC LITERATURE. The principal symphonic works, including concertos, 1750-1900. Analytical and historical studies of harmonic, formal, coloristic and descriptive techniques. *Prerequisite: Consent of instructor.*

Fall Jones 11:05 a.m.-12:20 p.m.

126-226. KEYBOARD LITERATURE. A survey of keyboard repertoire. Interrelation of keyboard literatures and historical development of keyboard style in music for the clavichord, harpsichord, organ, and piano. Technical problems and interpretation in the different keyboard media.

Winter Prichard 2:20-3:20 p.m.

127-227. CHAMBER LITERATURE. Detailed study of representative chamber music from Haydn to Bartok and Schoenberg. Critical analysis dealing with formal, stylistic, and technical elements as well as problems of interpretation.

Spring 1:15-2:15 p.m.

131. HISTORY OF CHURCH MUSIC. A nontechnical course in the history and practice of music in the worship of the Christian Church. Visiting Clergy, lectures, field trips to leading churches of the community.

Fall Frodsham 1:15-2:15 p.m.

132. CONDUCTING. Baton techniques. Practice in conducting both choral and instrumental ensembles. Score reading.

Fall McKernan and Swan 1:15-2:15 p.m.

133. CONDUCTING. Rehearsal problems; interpretation; score reading, organizational techniques. *Prerequisite: Music 132.*

Winter Jones and Swan 1:15-2:15 p.m.

134-234. CHORAL MUSIC SEMINAR. Studies in interpretation and advanced conducting. Chorus organization and rehearsal procedures. Vocal methods. *Prerequisite: Music 14, 15, 133, or approved equivalent.*

Fall Swan 2:20-3:20 p.m.

137-237. INSTRUMENTAL MUSIC SEMINAR. Survey of research resources in instrumental music; advanced conducting and interpretation of baroque, classical, romantic, and contemporary styles. Special studies in instrumental technique. *Prerequisite: Music 133.*

Spring Jones 2:20-3:20 p.m.

139-239. CHORAL LITERATURE. Selected choral compositions representing traditional periods of music history. Choral music of the 14th and 15th centuries, the renaissance, the baroque, classic, and romantic periods and the twentieth century will be given critical analysis with respect to elements of style and interpretation. Performance practice. *Prerequisite: Music 133.*

Winter Swan 2:20-3:20 p.m.

199. HONORS. Presentation of a senior thesis, composition or recital of unusual distinction and merit.

Each Term Staff Arrange

301. RESEARCH. Supervised investigation by Master of Arts candidates.

Each Term Staff Arrange

312. SEMINAR. Problems in musicology. Research techniques. Individual assignments.

Winter 8:50-9:50 a.m.

314. SEMINAR IN ANALYSIS. Detailed study of theories and practice in various types of analysis—Formal; Stylistic; Motivic; Harmonic; etc. Materials drawn from the music of Beethoven, Brahms, Bartok, Hindemith, Berg, and Stravinsky. *Given in alternate years.*

Winter Gross 10:00-11:00 a.m.

390. THESIS FOR MASTER OF ARTS DEGREE.

Each Term Staff Arrange

LABORATORY COURSES

One-sixth course credit may be earned for each laboratory except X 170-270 which is evaluated at one-third course credit. See page 19 concerning credit for fractional courses.

X10. VOICE CLASS. For beginners only. Fundamentals of singing, production, and repertoire.

Each Term Lauridsen *Not given in 1969-70.*

X11. PIANO CLASS. Basic keyboard technique at the beginning through lower intermediate level is emphasized. Folksongs and piano literature at the appropriate level are utilized in developing ability in sightreading, transposition, and keyboard application of harmony.

Each Term Prichard Mon.-Wed. 3:25-4:25 p.m.
Mon.-Wed. 4:30-5:30 p.m.

X12. GUITAR CLASS. An introduction to the classical guitar including basic technique and musicianship. The traditional classical repertoire as well as twentieth century music and flamenco will be explored.

Each Term Denning Arrange

X14. SIGHTSINGING AND DICTATION LABORATORY I. Music fundamentals: clefs, keys, rhythmic notation, basic sightsinging and dictation for ear training. *Open to nonmusic majors.*

Fall McKernan Arrange

X15. SIGHTSINGING AND DICTATION LABORATORY II. Continuation. *Prerequisite: Music X14.*

Winter McKernan Arrange

X161. INSTRUMENTS LABORATORY I. Beginning instruction in performance on strings. *Open to nonmusic majors.*

Fall McKernan Tues.-Thurs. 3:25-4:25 p.m.

MUSIC

X162. INSTRUMENTS LABORATORY II. Beginning instruction in performance on woodwinds. *Open to nonmusic majors.*

Winter McKernan Tues.-Thurs. 3:25-4:25 p.m.

X163. INSTRUMENTS LABORATORY III. Beginning instruction in performance on brass and percussion instruments. *Open to nonmusic majors.*

Spring McKernan Tues.-Thurs. 3:25-4:25 p.m.

X170-270. COLLEGIUM MUSICUM. The study and performance of selected vocal and instrumental works ranging from the thirteenth to the eighteenth centuries including an examination of the problems of notation and performance practices. *May be repeated for maximum credit of one full course.*

Fall Mon.-Wed.-Fri. 3:25-4:25 p.m.

Winter Mon.-Wed.-Fri. 3:25-4:25 p.m.

Spring Jones Mon.-Wed.-Fri. 3:25-4:25 p.m.

APPLIED MUSIC

A student may register in applied music for credit toward the degree of Bachelor of Arts on authorization of the chairman of the department and may complete such registration (1) for individual lessons with consent of the instructor, and (2) for membership in the various ensemble groups by passing tryouts as announced. One-sixth course may be earned each term for 10 half-hour private lessons, or for each ensemble group. Not more than two fractional courses may be taken in any one term, and a total of not more than two full courses toward the degree may be earned by means of accumulation of such fractional courses. See page 19 concerning credit for fractional courses.

Instruction is available each term in the following fields (class hours are to be arranged at Music Department Office, Music-Speech 23):

X 02 0	WIND ENSEMBLE	McKernan
X 04 1	CHOIR	Swan
X 04 2	GLEE CLUBS	Swan
X 08 1	ORCHESTRA	Jones
X 08 2	CHAMBER MUSIC	Gross
X 21 1	ORGAN	Prichard
X 21 2	HARPSICHORD	Prichard
X 21 3	PIANO	Segall
X 21 4	PIANO	Prichard
X 21 5	PIANO	Shaffer
X 22 1	BASSOON	Nowlin
X 22 2	CLARINET	Sabin
X 22 3	FLUTE	Stevens
X 22 4	FRENCH HORN	Pyle
X 22 5	OBOE	Muggeridge
X 22 6	TRUMPET	Remsen
X 23 1	HARP	Baum

MUSIC

X 23 2	CELLO	Di Tullio
X 23 4	VIOLIN	Baker
X 23 5	STRING BASS	Kestenbaum
X 23 6	GUITAR	Denning
X 24 1	VOICE	Roberts
X 24 2	VOICE	Lott
X 24 3	VOICE	Lauridsen
X 24 4	VOICE	Swan
X 25 5	VOICE	Frodsham

COLLEGE CHOIR
Tues.-Wed. 4:30-5:30 p.m. Swan

GLEE CLUBS
Mon.-Thurs. 4:30-5:30 p.m. Swan
Tues. 6:30-8:30 p.m.

ORCHESTRA
Mon. 4:30-5:30 p.m. Jones
Wed. 7:00-9:00 p.m.

WIND ENSEMBLE
Tues. 7:00-9:00 p.m. McKernan
Thurs. 4:30-5:30 p.m.

INSTRUMENTAL ENSEMBLES
Arrange Gross

APPLIED MUSIC WITHOUT CREDIT

Instruction in Applied Music without credit is available to any college student, and to pupils not regularly enrolled in the College when unused facilities exist, upon written authorization of the department chairman and payment of fees as listed below.

MUSIC FEES

Payable upon notice from Treasurer's Office

One half-hour lesson, weekly (ten lessons in the term)\$75.00

*Practice Fee for Use of Thorne Hall and Herrick Memorial Chapel Organs
Ten hours per term (one weekly) 7.00

*Practice Fee For Use of all other Organs
Ten hours per term (one weekly) 4.00

Registration Fee for any pupils accepted outside college enrollment 5.00

*One such practice period is allowed each student registered for applied music with the payment of his college tuition fee. The practice fees here listed are for students who need time beyond this minimum.

NATURAL SCIENCE

PROFESSOR BOLLMAN, *Chairman (of the Department of Physics)*

PROFESSOR BIRMAN *(of the Department of Geology)*

PROFESSOR McMENAMIN *(of the Department of Biology)*

ASSOCIATE PROFESSOR MCANALLY *(of the Department of Chemistry)*

ASSOCIATE PROFESSOR WELLS *(of the Department of Biology)*

The Natural Science program is designed for the student who is not majoring in a science. It is a sequence of courses which has the following objectives: (1) to increase the awareness of the student to the ways in which the scientist considers the world about him; (2) to introduce the student to the theories and interpretations of the physical and biological sciences; and (3) to encourage the student to consider more deeply the social and philosophical implications of modern science.

The first term provides an introduction to physical science, the second an opportunity for the student to concentrate his attention on the one physical science of his choice, and the third offers a study of selected principles of modern biology. An examination for exemption from the first term is given each spring. The Natural Science sequence is not open to freshmen.

1. NATURAL SCIENCE I. An introduction to the basic concepts and structure of physics.

Fall Bollman 8:50-9:50 a.m.

Spring Bollman 1:15-2:15 p.m.

2. NATURAL SCIENCE II.

Section 1: Chemistry. A descriptive consideration of current theories, research frontiers, and social implications of chemistry. Prerequisite: Natural Science I or permission of the instructor.

Winter McAnally 8:50-9:50 a.m.

Section 2. Geology. Survey of earth structure, composition, and process. Prerequisite: Natural Science I or permission of the instructor.

Winter Birman 8:50-9:50 a.m.

Section 3. Modern Physics. A descriptive survey of atomic and nuclear physics with special reference to topics of current interest. Prerequisite: Natural Science I or permission of the instructor.

Winter Bollman 11:05 a.m.-12:20 p.m.

3. NATURAL SCIENCE III.

Views of science. Case histories in science emphasizing the research activities of Occidental science faculty and students.

Fall Wells and Staff 1:15-2:15 p.m.

Evolution, heredity, adaptation, homeostasis, and replication in biological systems with special reference to the biological problems of man.

Spring McMenemy and Staff 8:50-9:50 a.m.

PHILOSOPHY

PROFESSOR GLOYN, *Chairman*

ASSISTANT PROFESSOR LAUTER

ASSISTANT PROFESSOR NEBLETT

Philosophy seeks to discover and to evaluate the general principles used by men in all fields of knowledge. For example, philosophers are concerned with distinguishing between good and bad conduct, beautiful and ugly experiences, factual statements and value judgments, real and unreal phenomena, valid and invalid arguments, and meaningful and meaningless sentences. They often incorporate the results of their investigations in systems or world views which comprehend wide areas of knowledge and experience. The major in Philosophy, in addition to training for professional work in Philosophy, provides excellent preparation for careers in many fields, but particularly in law, the social sciences, the humanities, and religion.

MAJOR: Nine courses, including Philosophy 25, 101, 102, 103, 123, 125, 190, and two courses chosen from Philosophy 1, 33, 104, 126, 131, 132, Political Science 140.

PHILOSOPHY

1. INTRODUCTION TO PHILOSOPHY. The terms, concepts, and problems of philosophy. Practice in the philosophic method.

Fall	Gloyn	Section 1: 11:05 a.m.-12:20 p.m.
	Lauter	Section 2: 2:20-3:20 p.m.
Winter	Neblett	11:05 a.m.-12:20 p.m.
Spring	Neblett	11:05 a.m.-12:20 p.m.

25. LOGIC AND LANGUAGE. Formal logic, the proposition and the syllogism; introduction to symbolic logic, truth-tables, rules of inference and replacement, propositional functions; the function of language, informal fallacies; induction, the logic of scientific method.

Winter	Lauter	2:20-3:20 p.m.
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33. SPACE AND TIME. A survey of the changing concepts of space and time as viewed by philosophers and scientists. Approximately half the course will discuss Einstein's Special Relativity. *Prerequisite: some familiarity with high school algebra. (See instructors for a summary of mathematical skills needed.) Given in alternate years.*

Fall	Lauter and Hudson*	11:05 a.m.-12:20 p.m.
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*Of the Department of Physics.

PHILOSOPHY

101-201. HISTORY OF PHILOSOPHY. Development of European thought through the work of the principal philosophers. Early Greek to the late Medieval period. Particular attention is given to Plato, Aristotle, Plotinus, and Augustine.

Fall Gloyd 2:20-3:20 p.m.

102-202. HISTORY OF PHILOSOPHY. Development of European thought through the work of the principal philosophers. From the Medieval period to the mid-nineteenth century: Aquinas to Nietzsche.

Winter Gloyd 2:20-3:20 p.m.

103-203. CONTEMPORARY PHILOSOPHIES. A survey of recent "movements" in British and American philosophy, principally idealism, existentialism, pragmatism, realism, logical atomism, logical positivism, and ordinary language philosophy.

Spring Lauter 2:20-3:20 p.m.

104. PHILOSOPHY OF RELIGION. Some of the perennial problems of religion: the nature of religion, the problem of evil, the relation of religion to scientific inquiry, the nature of religious experience, analysis of religious language. *Given in alternate years.*

Winter Gloyd 1:15-2:15 p.m.

121. THE MAKING OF THE MODERN MIND. An analytical survey of the history of thought in science, art, literature, economics, politics, philosophy, morals, and religion, indicating the underlying unity of these fields.

Fall Gloyd *Not given in 1969-70.*

123. ETHICS. A critical consideration of philosophies of evaluation, both classical and contemporary. Primary attention is given to theories of moral evaluation, dealing both with the traditional search for a universal moral standard and with present-day metaethical theory.

Winter Neblett 3:25-4:25 p.m.

125. METAPHYSICS AND EPISTEMOLOGY. A critical study of such topics in metaphysics and epistemology as knowledge and perception, language and reality, monism versus pluralism, other minds, and personal identity. *Given in alternate years.*

Fall Neblett 1:15-2:15 p.m.

126. PHILOSOPHY OF SCIENCE. An examination of some basic problems inherent in the nature of scientific inquiry and scientific knowledge; the construction and validation of scientific hypotheses and theories, the role of logic and mathematics in empirical science, types of scientific explanation and understanding, the relevance of science to valuation. *Prerequisite: Philosophy 1 or permission of instructor. Given in alternate years.*

Winter Lauter *Not given in 1969-70.*

131. INDIAN PHILOSOPHY. The more important thinkers and schools of philosophy which have dominated the thought and life of India. *Given in alternate years.*

Fall Staff *Not given in 1969-70.*

132. CHINESE PHILOSOPHY. The more important thinkers and schools of philosophy which have dominated the thought and life of China.

Fall Staff *Not given in 1969-70.*

190. SEMINAR. Concentrated study of a major problem or figure. *Prerequisite: permission of instructor.*

Spring Neblett 3:25-4:25 p.m.





PHYSICAL EDUCATION

ASSOCIATE PROFESSOR DUNLAP, *Chairman*

PROFESSOR BURKE

ASSISTANT PROFESSOR DENNIS

ASSISTANT PROFESSOR BERKEY

MR. FARMER, *Instructor*

MR. FICHTNER, *Instructor*

MR. GERHART, *Instructor*

MISS BURRUS, *Instructor*

The Department of Physical Education has the following functions: (1) to provide opportunity for all students to secure instruction and formal practice in a variety of social, developmental and recreational physical education activities; (2) to provide facilities and assistance for voluntary recreational and competitive experiences in the programs for campus recreation, intramural sports and intercollegiate competitive sports; and (3) to provide academic and professional preparation for leadership and teaching in health education, physical education, and recreation.

MAJOR: Nine courses from this department: Physical Education 100, 101, 102 and 103 (men) or 104 and 105 (women), 106, 107, 108, 109, 110 or 111; Biology 50, Mathematics 19, Psychology 1; and additional courses selected in consultation with the major adviser.
cation X1.

Physical Education majors and minors should fulfill the activity requirements through Physical Education X81 through X86, any one of which yields automatic exemption from the specific requirements in Physical Education X1.

ACTIVITY COURSES

All freshmen are required to take Physical Education each term during their first year. In the fall all freshmen will be preregistered in College Physical Education, X1. On the basis of their experiences in this class, they will elect activity courses for the winter and spring terms.

After the freshman year students may elect to take any course given by the department. Although there is no limit to the total number of courses a

PHYSICAL EDUCATION

student may take during his four years, he cannot repeat a course. These courses are graded only on a Pass/Fail basis.

After completion of the freshman activity requirement, students may elect one activity course per term. Credit for Physical Education activity is not included in the minimum and maximum credit specified for the Bachelor of Arts degree (see page 19). Unless otherwise described, all courses listed below are for beginners. A given course may be presented only once for credit.

XI. COLLEGE PHYSICAL EDUCATION. An introduction to a variety of college activity classes which will provide students with class experiences to assist them in electing classes during the winter and spring terms.

<i>Fall</i>	Staff	1/6 course	Section 1: Tues.-Thurs. 10:00-11:00 a.m.
	Staff	1/6 course	Section 2: Mon.-Wed. 10:00-11:00 a.m.

X2. SWIMMING. Beginning and intermediate instruction in fundamental strokes.

<i>Winter</i>	Dennis	1/6 course	Tues.-Thurs. 10:00-11:00 a.m.
<i>Spring</i>	Dennis	1/6 course	Tues.-Thurs. 10:00-11:00 a.m.

X3. TEAM SPORTS SKILLS. Development of beginning skills for team sports. Basketball, football, softball, and volleyball. *Men only.*

<i>Winter</i>	Fichtner	1/6 course	Tues.-Thurs. 10:00-11:00 a.m.
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X4. PHYSICAL FITNESS. Improvement of strength, endurance, flexibility, and body mechanics. Therapeutic or restricted exercise if needed. Weight control, if indicated, with guidance by physician. Opportunity to work toward special personal objectives. *Men only.*

<i>Fall</i>	Burke	1/6 course	Arrange
<i>Winter</i>	Gerhart	1/6 course	Tues.-Thurs. 10:00-11:00 a.m.

X5. FIGURE CONTOURING. Development of muscle tone, body mechanics, and graceful movement. Weight control, if indicated, with guidance by physician. Therapeutic or restricted exercise if needed. Opportunity to work toward special personal objectives. *Women only.*

<i>Fall</i>	Burrus	1/6 course	Mon.-Wed. 2:20-3:20 p.m.
<i>Winter</i>	Burrus	1/6 course	Section 1: Tues.-Thurs. 10:00-11:00 a.m.
	Burrus	1/6 course	Section 2: Mon.-Wed. 2:20-3:20 p.m.

X6. WEIGHT TRAINING. *Men only.*

<i>Fall</i>	Farmer	1/6 course	Section 1: Mon.-Wed. 1:15-2:15 p.m.
	Fichner	1/6 course	Section 2: Tues.-Thurs. 1:15-2:15 p.m.
<i>Winter</i>	Gerhart	1/6 course	Section 1: Mon.-Wed. 10:00-11:00 a.m.
	Farmer	1/6 course	Section 2: Tues.-Thurs. 1:15-2:15 p.m.
	Gerhart	1/6 course	Section 3: Arrange
<i>Spring</i>	Gerhart	1/6 course	Section 1: Mon.-Wed. 10:00-11:00 a.m.
	Farmer	1/6 course	Section 2: Tues.-Thurs. 10:00-11:00 a.m.

X7. MOVEMENT EXPLORATION. Movement experiences to promote body awareness, specialized women's gymnastics in ball handling and rebound tumbling plus participation in the basic steps of international folk dances. *Women only.*

<i>Winter</i>	Burrus	1/6 course	Mon.-Wed. 10:00-11:00 a.m.
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PHYSICAL EDUCATION

X10. FRESHMAN INTERCOLLEGIATE SPORTS. *Men and women (separate programs), with coach's permission.*

Fall Dennis 1/6 course Arrange

X11. VARSITY INTERCOLLEGIATE SPORTS. *Men and women (separate programs), with coach's permission.*

Fall Dennis 1/6 course Arrange

X12. FRESHMAN INTERCOLLEGIATE SPORTS. *Men and women (separate programs), with coach's permission.*

Winter Dennis 1/6 course Arrange

X13. VARSITY INTERCOLLEGIATE SPORTS. *Men and women (separate programs), with coach's permission.*

Winter Dennis 1/6 course Arrange

X14. FRESHMAN INTERCOLLEGIATE SPORTS. *Men and women (separate programs), with coach's permission.*

Spring Dennis 1/6 course Arrange

X15. VARSITY INTERCOLLEGIATE SPORTS. *Men and women (separate programs), with coach's permission.*

Spring Dennis 1/6 course Arrange

X17. ELEMENTARY GYMNASTICS. Trampoline, apparatus, and tumbling.

Fall Burke 1/6 course Tues.-Thurs. 3:25-4:25 p.m.

Winter Burke 1/6 course Mon.-Wed. 10:00-11:00 a.m.

Spring Burke 1/6 course Mon.-Wed. 10:00-11:00 a.m.

X22. BEGINNING CONTEMPORARY DANCE.

Fall Burrus 1/6 course Mon.-Thurs. 11:05 a.m.-12:20 p.m.

Winter Burrus 1/6 course Tues.-Thurs. 10:00-11:00 a.m.

X23. ADVANCED CONTEMPORARY DANCE.

Fall Staff 1/6 course Thurs. 7:00-9:00 p.m.

Winter Staff 1/6 course Thurs. 7:00-9:00 p.m.

Spring Staff 1/6 course Thurs. 7:00-9:00 p.m.

X24. DANCE PRODUCTION.

Fall Staff 1/6 course Thurs. 7:00-9:00 p.m.

Winter Staff 1/6 course Thurs. 7:00-9:00 p.m.

Spring Staff 1/6 course Thurs. 7:00-9:00 p.m.

X30. BEGINNING AND INTERMEDIATE SWIMMING.

Winter Dennis 1/6 course *Not given in 1969-70.*

X31. LIFE SAVING. American Red Cross certification.

Fall Gerhart 1/6 course Mon.-Wed. 1:15-2:15 p.m.

Winter Dennis 1/6 course Section 1: Mon.-Wed. 1:15-2:15 p.m.

Berkey 1/6 course Section 2: Mon.-Wed. 10:00-11:00 a.m.

X32. WATER SAFETY INSTRUCTORSHIP. American Red Cross Instructor Certification.

Fall Burke 1/6 course Tues.-Thurs. 1:15-2:15 p.m.

Spring Dennis 1/6 course Tues.-Thurs. 1:15-2:15 p.m.

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X33. WATER BALLET.

Winter Berkey 1/6 course *Not given in 1969-70*

X34. SYNCHRONIZED SWIMMING.

Spring Staff 1/6 course *Not given in 1969-70.*

X35. SCUBA DIVING. Los Angeles County Certified Scuba card. *Laboratory fee \$45.00. Includes all diving equipment used at Taylor Pool. Excluded are fees for equipment and boat on field trips.*

Fall Staff 1/6 course Wed. 7:00-10:00 p.m.

Sat. Arrange

Winter Staff 1/6 course Wed. 7:00-10:00 p.m.

Sat. Arrange

Spring Staff 1/6 course Wed. 7:00-10:00 p.m.

Sat. Arrange

X40. BEGINNING TENNIS.

Fall Farmer 1/6 course Tues.-Thurs. 1:15-2:15 p.m.

Winter Farmer 1/6 course Section 1: Mon.-Wed. 10:00-11:00 a.m.

Berkey 1/6 course Section 2: Tues.-Thurs. 10:00-11:00 a.m.

Berkey 1/6 course Section 3: Tues.-Thurs. 1:15-2:15 p.m.

Spring Burrus 1/6 course Section 1: Mon.-Wed. 10:00-11:00 a.m.

Fichtner 1/6 course Section 2: Tues.-Thurs. 10:00-11:00 a.m.

Burrus 1/6 course Section 3: Mon.-Wed. 1:15-2:15 p.m.

X41. INTERMEDIATE TENNIS.

Fall Burrus 1/6 course Mon.-Wed. 1:15-2:15 p.m.

Spring Farmer 1/6 course Tues.-Thurs. 1:15-2:15 p.m.

X42. ADVANCED TENNIS.

Winter Burrus 1/6 course Mon.-Wed. 1:15-2:15 p.m.

X43. BEGINNING GOLF.

Fall Berkey 1/6 course Mon.-Wed. 2:20-3:20 p.m.

Winter Gerhart 1/6 course Tues.-Thurs. 1:15-2:15 p.m.

Spring Fichtner 1/6 course Mon.-Wed. 1:15-2:15 p.m.

X44. BEGINNING BADMINTON.

Fall Burke 1/6 course Section 1: Tues.-Thurs. 2:20-3:20 p.m.

Burrus 1/6 course Section 2: Tues.-Thurs. 1:15-2:15 p.m.

Winter Dunlap 1/6 course Mon.-Wed. 10:00-11:00 a.m.

Spring Burke 1/6 course Section 1: Tues.-Thurs. 10:00-11:00 a.m.

Burrus 1/6 course Section 2: Tues.-Thurs. 1:15-2:15 p.m.

X45. INTERMEDIATE BADMINTON.

Winter Burrus 1/6 course Tues.-Thurs. 1:15-2:15 p.m.

Spring Burke 1/6 course Tues.-Thurs. 2:20-3:20 p.m.

X48. RELAXATION. The development of neuromuscular relaxation which results in a reduction of tension in the skeletal musculature and initiates a cyclical downtrend of activity in the nervous system. Learning to relax muscles and thus reduce tension.

Spring Dunlap 1/6 course Mon.-Wed. 1:15-2:15 p.m.

X55. CO-ED VOLLEYBALL.

Winter Dunlap 1/6 course Tues.-Thurs. 10:00-11:00 a.m.

Spring Farmer 1/6 course Section 1: Mon.-Wed. 10:00-11:00 a.m.

Gerhart 1/6 course Section 2: Tues.-Thurs. 10:00-11:00 a.m.

X56. BASKETBALL. *Men only.*

Winter	Farmer	1/6 course	Tues.-Thurs. 10:00-11:00 a.m.
Spring	Fichtner	1/6 course	Mon.-Wed. 10:00-11:00 a.m.

X57. SOCCER AND SPEEDBALL. *Men only.*

Winter	Burke	1/6 course	Tues.-Thurs. 10:00-11:00 a.m.
Spring	Burke	1/6 course	Tues.-Thurs. 1:15-2:15 p.m.

X58. FIELD HOCKEY. *Women only.*

Winter	Berkey	1/6 course	<i>Not given in 1969-70.</i>
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X59. SOFTBALL. *Women only.*

Spring	Burrus	1/6 course	<i>Not given in 1969-70.</i>
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X81. MAJORS' ACTIVITIES I. Archery, Volleyball, Golf. Development of skills, terminology, equipment, facilities, apparel, rules and etiquette, safety, strategy, organization and methods of teaching. *Given in alternate years.*

Fall	Berkey	1/6 course	11:05 a.m.-12:20 p.m.
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X82. MAJORS' ACTIVITIES II. Gymnastics: Tumbling, stunts, pyramids, apparatus. Development of skills, terminology, equipment, facilities, apparel, safety (manual, mechanical, and organizational), methods of teaching. *Given in alternate years.*

Winter	Burke	1/6 course	Mon.-Wed.-Fri. 2:20-3:20 p.m.
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X83. MAJORS' ACTIVITIES III. Aquatics, wrestling (men), and contemporary dance (women). Aquatics through American Red Cross Senior Life Saving, wrestling and contemporary dance through intermediate levels. Skills, terminology, safety, equipment, organization and methods of teaching. *Given in alternate years.*

Spring	Burke, Dennis, Burrus	Mon.-Wed.-Fri. 2:20-3:20 p.m.
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X84. MAJORS' ACTIVITIES IV. Tennis and Badminton. Development of skills, terminology, equipment, facilities, apparel, rules and etiquette, safety, strategy, organization and methods of teaching. *Given in alternate years.*

Fall	Dunlap	1/6 course	<i>Not given in 1969-70.</i>
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X85. MAJORS' ACTIVITIES V. Folk, Square, and Social Dance. Development of skills; recognition of rhythms; terminology; etiquette; organization, methods, and materials for teaching; calling and accompaniment; equipment; facilities; apparel. *Given in alternate years.*

Winter	Burrus	1/6 course	<i>Not given in 1969-70.</i>
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X86. MAJORS' ACTIVITIES VI. Ball-handling fundamentals, Field Hockey (women), and Track and Field. Throwing, catching, shooting, batting, dribbling, kicking, etc., for soccer, speedball, football, basketball, and baseball. Performance of track and field events. Skills and playing strategy in field hockey, soccer, and speedway for women. *Given in alternate years.*

Spring	Farmer	1/6 course	<i>Not given in 1969-70.</i>
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X88. METHODS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION I. Theory, objectives, methods and materials, safety, and evaluation in elementary school physical education. Development of skills and practice in teaching. Field trips to observe master teaching. *Required of candidates for elementary school teaching credential. Satisfies college activity requirement.*

Not given in 1969-70.

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X89. METHODS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION II. Continuation of P.E. 88, which is recommended but not required as a prerequisite. *Satisfies college activity requirement.*

Not given in 1969-70.

THEORY COURSES

100. HEALTH SCIENCE. The nature of health; personal and community health, with general and professional implications. Advanced first aid. Principles of safety. *Given in alternate years.*

Fall Dennis *Not given in 1969-70.*

101. ADMINISTRATION OF HEALTH AND RECREATION. School health programs, including health instruction, health services, and provision of a healthful school environment at elementary and secondary levels. Survey of principles, organization, and program development in community recreation by municipalities and private agencies. *Given in alternate years.*

Fall Dennis 2:20-3:20 p.m.

102. ANALYSIS AND STRATEGY OF SPORTS I. Theory and strategy in teaching, coaching, and officiating football and track and field athletics. *Men only. Given in alternate years.*

Fall Farmer, Gerhart *Not given in 1969-70.*

103. ANALYSIS AND STRATEGY OF SPORTS II. Theory and strategy in teaching, coaching, and officiating basketball and baseball.

Spring Dunlap 11:05 a.m.-12:20 p.m.

104. DANCE ANALYSIS AND CHOREOGRAPHY. Historical development of dance forms. Organic analysis of choreography, with performance laboratory. *Women only. Given in alternate years.*

Fall Burrus *Not given in 1969-70.*

105. ANALYSIS AND STRATEGY OF WOMEN'S SPORTS. Theory and strategy of basketball, softball, soccer, speedaway, and field hockey. Methods in teaching, coaching, and officiating. *Women only. Given in alternate years.*

Spring Berkey 11:05-12:20 p.m.

106. HISTORY AND PRINCIPLES. A detailed study of sports, physical education, and recreation in the history of civilization, leading to the formulation of principles of physical education by examination of philosophies, sociology, psychology, and biology as source fields. *Given in alternate years.*

Fall Dunlap 10:00-11:00 a.m.

107-207. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. Legal basis, policies and procedures for organizing and conducting programs, planning and managing facilities and equipment, purchasing and budgeting, planning curriculum, personnel relationships, public relations. Teaching methodology, with supervised teaching in College Physical Education course. Visitations and observation in public schools.

Winter Fichtner 8:50-9:50 a.m. and Tues.-Thurs. 10:00-11:00 a.m.

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108-208. KINESIOLOGY. Structural and functional analysis of human motion, with implications for organic health, fitness, physical and motor growth and protection. Development of principles for selecting and evaluating exercises and exercise regimes. The design and conduct of adapted, rehabilitative, and therapeutic exercise programs. Prevention and management of athletic injuries. *Prerequisite: Biology 50 completed or in process. Given in alternate years.*

Winter Burke Not given in 1969-70.

109-209. MECHANICS AND PHYSIOLOGY OF HUMAN MOTION. Mechanical principles in human movement, with quantitative analytic projects. Exercise physiology, emphasizing cardio-circulatory efficiency, energy metabolism, fitness, training, fatigue, and recovery, with laboratory experiments. *Prerequisite: Biology 50 completed or in process. Given in alternate years.*

Winter Burke 11:05-12:20 p.m.

110-210. SURVEY OF TECHNICAL LITERATURE. Study of research and technical literature in physical education, sports medicine, motor learning, and human motion. Specific study of measurement and evaluation in physical education, including test construction. *Prerequisite: Mathematics 19.*

Spring Gerhart Arrange

111-211. MOTOR LEARNING. Coverage of perceptual implications in learning; structural and functional analysis of the nervous system; time distribution, motivation, stress, maturation, and other factors influencing the effectiveness and efficiency of teaching.

Spring Burrus 8:50-9:50 a.m.

PHYSICS

ASSOCIATE PROFESSOR NELSON, *Chairman*

PROFESSOR BOLLMAN

ASSOCIATE PROFESSOR HUDSON

ASSOCIATE PROFESSOR SEGALL

ASSOCIATE PROFESSOR ELLIOTT

ASSOCIATE PROFESSOR SANDERS

MR. ZENONE, *Instructor*

The Department of Physics offers a three-course introductory sequence, Physics 11-12-13, stressing fundamental procedures in analytical physics to form a foundation for advanced work and to serve students majoring in the sciences and mathematics. Physics 21-22, a two-course terminal sequence, is offered for students who plan to enter the medical profession and for the general student who desires an understanding of the basic concepts of classical and modern physics.

In advanced work the aim is to supply a group of courses essential for professional work in physics and for entrance to graduate schools for those who plan to continue their studies after graduation.

The program for majors provides also for entrance into the School of Engineering of Columbia University or the California Institute of Technology under the Combined Plan Program. Students interested in engineering should consult pages 55-56 for details of these plans.

MAJOR: Twelve courses from this department, including Physics 11, 12, 13, 50, X100 (six terms), 110, 150, 151, 160, 181, 182, 183. Required courses must include Mathematics 41, 42, 43, 61, 62, 63. Upon consultation with their adviser, students with special goals and those interested in biophysics, geophysics, or similar interdisciplinary fields, or in teaching at the secondary level, may be permitted to substitute other courses for some of the required physics courses mentioned above.

The comprehensive examination in Physics will be in two parts: (a) an examination covering the required course work in Physics, and (b) the Advanced Test in Physics administered by the Educational Testing Service as part of the Graduate Record Examinations. The student is charged a fee by the Educational Testing Service for this latter examination.

INTERDEPARTMENTAL MAJOR IN GEOPHYSICS: Physics 11, 12, 13, 50, 110, 150; Geology, 1, 43, 51, 52 or 53, 111, 121. For additional information see page 88.

HONORS: On permission of the staff, selected junior and senior students who show evidence of ability to carry on individual investigation may be permitted to present a written thesis for Departmental Honors at graduation. Such a program may be undertaken with or without registration in Physics 197.

11. INTRODUCTORY PHYSICS I. A basic course in classical physics using calculus. A rigorous analytical study of fundamental concepts of statics and dynamics, conservation laws. Kinetic theory, heat and thermodynamics. Electricity and magnetism, electrical circuits, the origin and nature of waves. Propagation, interference, diffraction and polarization phenomena. *Prerequisite: Mathematics 41. Mathematics 42 must be taken concurrently.*

Winter Hudson Lectures: 1:15-2:15 p.m.
Discussion Groups: Arrange

12. INTRODUCTORY PHYSICS II. Continuation.

Spring Nelson Lectures: 1:15-2:15 p.m.
Discussion Groups: Arrange

13. INTRODUCTORY PHYSICS III. Introduction to Atomic and Nuclear physics, relativity. Selected experiments in introductory physics. *Prerequisite: Physics 12.*

Fall Hudson Lectures: 1:15-2:15 p.m.
Staff Laboratory: Section 1: Mon. 2:20-5:30 p.m.
Section 2: Tues. 2:20-5:30 p.m.
Section 3: Wed. 2:20-5:30 p.m.

21. BASIC PHYSICS I. Physics 21 and 22 constitute a two-term course in classical and modern physics using elementary calculus. Designed primarily for premedical students and others in the biological sciences. *Prerequisite: Mathematics 21 or equivalent (may be taken concurrently).*

Winter Zenone Lectures: 8:50-9:50 a.m.
Discussion Groups: Arrange

22. BASIC PHYSICS II. Continuation.

Spring Zenone Lectures: 8:50-9:50 a.m.
Discussion groups: Arrange
Staff Laboratory: Section 1: Mon. 1:15-5:30 p.m.
Section 2: Tues. 1:15-5:30 p.m.
Section 3: Wed. 1:15-5:30 p.m.

50. ELECTRONICS IN PHYSICS RESEARCH. Theoretical and experimental electronics fundamental to modern physical research. *Prerequisite: Physics 12. Open to non-physics majors if space available.*

Winter Nelson Lectures: 11:05 a.m.-12:20 p.m.
Nelson Laboratory: Section 1: Mon. 2:20-5:30 p.m.
Nelson Section 2: Tues. 2:20-5:30 p.m.
Nelson Section 3: Wed. 2:20-5:30 p.m.

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X100. ADVANCED LABORATORY AND SEMINAR. A 1/6 course required for physics majors during each term of the junior and senior year. Selected experiments in modern physics and seminars on topics of current interest. The work for a total credit of one course is distributed as follows:

JUNIOR YEAR:

<i>Fall</i>	Elliott	Laboratory: Wed. 2:20-5:00 p.m.
<i>Winter</i>	Bollman Sanders	Laboratory: Tues. 2:20-5:00 p.m. Seminar: Thurs. 3:25-4:25 p.m.
<i>Spring</i>	Segall	Seminar: Thurs. 3:25-4:25 p.m.

SENIOR YEAR:

<i>Fall</i>	Elliott	Laboratory: Wed. 2:20-5:00 p.m.
<i>Winter</i>	Sanders	Seminar: Thurs. 3:25-4:25 p.m.
<i>Spring</i>	Segall	Laboratory: Wed. 2:20-5:00 p.m. Seminar: Thurs. 3:25-4:25 p.m.

110. ANALYTICAL DYNAMICS. Particle and rigid body motion, Lagrange's and Hamilton's Equations, moving coordinate systems, boundary value problems. *Prerequisite: Mathematics 61 and 62, Physics 11 and 12.*

Spring Nelson 7:45-8:45 a.m.

135. SOLID STATE PHYSICS. Experimental and theoretical aspects of the crystalline structure, and the electrical, magnetic, and optical properties of solids. *Prerequisite: Physics 13. Given in alternate years.*

Winter Segall Not given in 1969-70.

150. ELECTROMAGNETIC FIELDS AND WAVES I. Electrostatics, magnetic fields, Maxwell's equations, boundary value problems, radiation. *Prerequisite: Physics 110, Mathematics 63.*

Fall Segall 2:20-3:20 p.m.

151. ELECTROMAGNETIC FIELDS AND WAVES II. Dipole radiation, scalar theory of diffraction, Fourier transforms, polychromatic waves, interaction of electromagnetic waves and matter (scattering, dispersion, reflection, polarization). *Prerequisite: Physics 150 and 181.*

Winter Zenone 7:45-8:45 a.m.

155. MATHEMATICAL METHODS IN PHYSICS. Special topics in mathematical physics including tensors, Green's functions, transforms, group theory, and integral equations. *Prerequisite: Physics 110. Given in alternate years.*

Winter Segall 10:00-11:00 a.m.

160. THERMAL AND STATISTICAL PHYSICS. Classical and quantum statistical approaches to macroscopic thermodynamics, kinetic theory, transport processes. *Prerequisite: Physics 181.*

Fall Elliott 10:00-11:00 a.m.

181. MODERN PHYSICS I. Experimental and theoretical atomic and nuclear physics. An introduction to quantum mechanics including the theory of scattering, approximation methods and perturbation theory. *Prerequisite: Physics 13 and 150.*

Winter Sanders 8:50-9:50 a.m.

182. MODERN PHYSICS II. Continuation of Physics 181.

<i>Spring</i>	Hudson	Lecture: 10:00-11:00 a.m.
	Hudson	Laboratory: Section 1: Mon. 2:20-5:30 p.m.
	Hudson	Section 2: Tues. 2:20-5:30 p.m.

183. MODERN PHYSICS III. Continuation.

<i>Fall</i>	Sanders	11:05 a.m.-12:20 p.m.
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197. SPECIAL TOPICS. Supervised investigation by properly qualified students.
Prerequisite: Permission of the Department Chairman.

<i>Each Term</i>	Staff	Arrange
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POLITICAL SCIENCE

PROFESSOR REATH, *Chairman*

PROFESSOR McKELVEY

PROFESSOR MILL

ASSOCIATE PROFESSOR LARE

ASSISTANT PROFESSOR CALDWELL

MRS. JAQUETTE, *Instructor*

MR. MCHARGUE, *Instructor by Special Appointment*

The course offerings and the resources of the department are intended to provide: (1) general training in matters of national and world citizenship; political and social behavioral studies; Soviet studies; and urban affairs; (2) special background for those whose professional goals are (a) law; (b) private and public administration whether domestic or international; (c) practical politics; (d) overseas careers including international business; (e) journalism and the other communications media; (f) teaching and research.

Opportunities are presented each year for a few students, selected on a competitive basis, to work in various internship programs with public agencies and political parties. Also, Occidental is one of a limited group of liberal arts colleges invited by the American University in Washington, D.C., to take part in its Washington Semester Program, an opportunity to spend a term in the capital studying and observing the national government in action and having contact with major policy makers and other persons prominent on the national and international scene. The appointment is restricted to students in their junior year, and those students wishing to be considered for appointment should apply to the Chairman of the Department of Political Science in their sophomore year.

Students interested in political studies or in regional studies dealing with Asia, Latin America, or Europe are referred also to the interdepartmental major in Diplomacy and World Affairs (page 46).

MAJOR: Normally, a minimum of nine courses from this department, but in no case less than eight. Normally, required courses include Political Science 50, 100, 110, 140, 160, and either 129, or both 130 and 131, plus three others from the department. For the exceptions to these normal requirements for a major consult the chairman of the department. Majors are strongly recommended, but not required, to take Mathematics X3 and Mathematics 19.

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MAJOR WITH AN EMPHASIS IN POLITICAL AND SOCIAL BEHAVIORAL STUDIES: Students wishing to major with this interdisciplinary emphasis are to register their intention with the chairman of the department. The interdisciplinary required core courses are: Mathematics 19, Psychology 2, Psychology 123, Psychology 135, and Sociology 12 or Anthropology 10. Psychology 1 is not required, but may be considered an option in this emphasis. In addition to this core of five courses, each student will take eight courses in the department selected in consultation with an adviser. Normally these courses will be: Political Science 50, 100, 110, 140, 150 or 160, 167, 169, and one other course chosen in consultation with an adviser. Strongly recommended for all students, but not required: Mathematics X3. (See page 48.)

MAJOR WITH AN EMPHASIS IN SOVIET STUDIES: Students wishing to major with this emphasis are to register their intention with the chairman of the department. The required core courses are Political Science 50, 110, 116, 117, 118, 140, and one course from among the following: Political Science 100, 129, 160, or both Political Science 130 and 131. A student choosing this emphasis will normally elect in addition two courses from among the following: Economics 109, History 127, Political Science, 111, 115, 119, 121, Russian 102, and Russian 158. A student choosing this emphasis will also normally elect to do *at least* one term of guided research under Political Science 199. This research will be designed in cooperation with two faculty members and will cover the following areas:

Soviet Administration and Bureaucracy (Lare-Caldwell)

Soviet Economy (Humphrey-Caldwell)

Soviet History (Caldwell)

Soviet Law (Reath-Caldwell)

Soviet Literature (Alkire-Packler and Caldwell)

Strongly recommended but not required: Mathematics X3 and Mathematics 19.

MAJOR WITH AN EMPHASIS IN URBAN STUDIES: Students wishing to participate in this interdisciplinary program are to register their intention with the chairman of the department. In addition to eight courses in the department selected in consultation with an adviser (normally these will include Political Science 15, 50, 100, 110, 140, 150 or 160, 165, and one elective), each student will take at least two relevant courses offered by the Department of Sociology and Anthropology, at least two relevant courses offered by the Department of Psychology, and one course relevant to the emphasis selected either from those courses listed under Urban Studies (page 51) or from departments other than the three offering the program (e.g., Geology 10, Economics 125, or History 41). Strongly recommended for all students, but

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not required: History of Ideas 53, Mathematics X3, Mathematics 19, and Sociology 165. (See page 50.)

HONORS: Qualified majors may achieve Departmental Honors at graduation through completion of a program including independent research involving a senior thesis. Consult the department chairman concerning details.

1. **POLITICAL BEHAVIOR AND MISBEHAVIOR.** The influence of personality structure, psychopathology, and socializing institutions on the behavior of the leaders and the led in both pluralistic and totalitarian societies. Intensive study of elitism in the United States, the British Establishment, and the Soviet Communist Party, and the new elites of the developing nations.

Winter Lare *Not given in 1969-70.*

3. **POLITICAL POWER.** A study of: who gets what, when, and how in the power struggle; the strategies of ruling class creation, survival, and destruction; the role of magic, incantation, demonology, and the nonrational in political affairs with special emphasis on the contemporary scene.

Spring McKelvey 11:05 a.m.-12:20 p.m.

15. **URBAN STUDIES.** An in-depth inquiry into experiments to "save the cities" through metropolitan government and new patterns in federal-local relationships; examination of problems contributing to the urban crisis—fragmented government, unresponsive state legislatures, inadequate revenues; and issues of land-use planning, transportation, unemployment, ghettos, the war on poverty, education, and law enforcement.

Fall Lare 2:20-3:20 p.m.

25. **PROSEMINAR IN POLITICAL BIOGRAPHY.** Individual student research into the principles of politics using biography and autobiography as the data. Students will have a wide choice among politicians, living and dead, and each student will be expected to study in depth the life of at least one political figure. *Given in alternate years.*

Winter Reath *Not given in 1969-70.*

50. **GOVERNMENT IN THE UNITED STATES.** Governmental institutions and political processes in national and state governments. (Meets state requirement in United States Constitution and California government.)

Fall McKelvey 7:45-8:45 a.m.

Winter Lare Section 1: 11:05 a.m.-12:20 p.m.

Caldwell Section 2: 2:20-3:20 p.m.

Spring Reath 11:05 a.m.-12:20 p.m.

100. **GOVERNMENT AND POLITICS OF EUROPE.** Comparative analysis of political institutions and processes in Britain, France, Germany, and the U.S.S.R.

Fall Caldwell 2:20-3:20 p.m.

Winter McKelvey 7:45-8:45 a.m.

101-201. **GOVERNMENT AND POLITICS OF SOUTHEAST ASIA.** Indonesia, the Philippines, Vietnam, Laos, Thailand and Malaya; the role of Southeast Asia in world affairs.

Fall McHargue 8:50-9:50 a.m.

102-202. GOVERNMENT AND POLITICS OF AFRICA. The organized national movements of Africa; response of Africans to Western politics and economics. Role of Africa in world affairs.

Spring Mill 10:00-11:00 a.m.

103-203. LATIN AMERICAN POLITICS. The development of a model of Latin American politics and its implications for development; democracy and revolution in the Latin American context; the role of the United States.

Spring Jaquette 1:15-2:15 p.m.

110. INTERNATIONAL RELATIONS. The forces of nationalism, imperialism, and international law and organization in the nation-state system; dynamics of contemporary foreign policies.

Fall McKelvey 8:50-9:50 a.m.

Winter Jaquette 10:00-11:00 a.m.

111. UNITED STATES FOREIGN POLICY. The organization, formulation, and execution of American foreign policy in the contemporary world.

Fall McHargue 11:05 a.m.-12:20 p.m.

112. INTERNATIONAL ORGANIZATION. The development of international organization with major emphasis on the origins, functions, and operation of the United Nations. A simulated U.N. Model General Assembly will be employed.

Winter Mill 11:05 a.m.-12:20 p.m.

114. INTERNATIONAL LAW. Sources, evidences, bibliography and selected substantive rules. Conducted primarily by study of cases and documents with students giving decisions in hypothetical cases. *Given in alternate years.*

Spring Reath 1:15-2:15 p.m.

115-215. COMPARATIVE COMMUNIST SYSTEMS: EASTERN EUROPE AND ASIA. An analysis of how selected Eastern European and Asian Communist governments deal with the problems of political and economic modernization. *Given in alternate years.*

Spring Caldwell 2:20-3:20 p.m.

116-216. THE SOVIET EXPERIENCE I: IDEOLOGY AND REVOLUTION. An examination of the Russian Revolution with special attention to political forces in the reign of Nicholas II, generalizing that experience by projecting it on the broader framework of inquiry into the nature of revolution. Students will develop substantive knowledge of at least one other historical revolution. Study of the development of Marxism-Leninism, its adaptation to Russian conditions and its claim as a revolutionary ideology. *Given in alternate years.*

Fall Caldwell *Not given in 1969-70.*

117-217. THE SOVIET EXPERIENCE II: POLITICS, PERSONALITIES, AND TOTALITARIANISM. A study of Soviet political institutions, foreign policy, economic development, and culture between the revolution and World War II. Students will make a detailed analysis of Stalinism comparing it with Hitler's Germany in an effort to develop generalizations about totalitarianism. *May be taken without prerequisite. Given in alternate years.*

Winter Caldwell *Not given in 1969-70.*

118-218. THE SOVIET EXPERIENCE III: COLD WAR, DE-STALINIZATION, AND POLYCENTRISM. A continuation of the application of multi-disciplined learning to Soviet experience. Students will study Soviet domestic and foreign policy developments since World War II with special attention to the origins of the Cold

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War and diversification within international communism. *May be taken without prerequisite. Given in alternate years.*

Spring Caldwell Not given in 1969-70.

119-219. SEMINAR IN SOVIET AFFAIRS. An examination of selected problems involving the student in research design and analysis of models. *Given in alternate years.*

Spring Caldwell 10:00-11:00 a.m.

120-220. SEMINAR IN INTERNATIONAL RELATIONS. A theoretical study of conflict, alliance behavior, the role of the nation-state and international organization in the international system; a critical examination of conflict strategy and the problems of arms control and disarmament; the uses and abuses of the behavioral and systems approaches.

Spring Jaquette 3:25-4:25 p.m.

121-221. SEMINAR IN UNITED STATES FOREIGN RELATIONS. Programs and problems of the United States in international affairs viewed with particular reference to certain concepts in world politics, such as modernization, conflict resolution, and military strategy. *Given in alternate years.*

Fall Caldwell 10:00-11:00 a.m.

122-222. SEMINAR IN ASIAN AFFAIRS. Advanced study and research on selected problems of the region.

Spring Mill 2:20-3:20 p.m.

129. INTRODUCTION TO CONSTITUTIONAL LAW. General historical survey of American constitutional law covering the Supreme Court's jurisdiction, the power of the President and of Congress, the nature of the federal system, the commerce and taxing powers, the Bill of Rights, and the Fourteenth Amendment.

Fall Reath 1:15-2:15 p.m.

130. AMERICAN CONSTITUTIONAL LAW I. Study in depth by case method of judicial review, the federal system, the commerce and taxing powers, and the role of Congress and the President.

Fall Reath 11:05 a.m.-12:20 p.m.

131. AMERICAN CONSTITUTIONAL LAW II. Study in depth by case method of civil rights, separation of church and state, fair procedure in criminal cases.

Winter Reath 11:05 a.m.-12:20 p.m.

140. HISTORY OF POLITICAL THEORY. History of man's attempt to define the issues in politics and to apply reason to the conduct of government. Proceeds chronologically from Classical Greece to the present.

Winter Reath 1:15-2:15 p.m.

142-242. SEMINAR IN AMERICAN POLITICAL IDEAS. Insights and ideals emerging during the development of American political thought and their relevance to contemporary political, economic, and social issues. Intensive study of selected themes. *Given in alternate years.*

Spring Lare Not given in 1969-70.

150. AMERICAN POLITICAL PARTIES, PRESSURE GROUPS AND PUBLIC OPINION. Development, organization, practices of political parties and pressure groups; nominations and elections; nature, formation and control of public opinion. *Given in alternate years.*

Spring Lare 11:05 a.m.-12:20 p.m.

151. PRACTICAL PROBLEMS OF POLITICAL CONTROL. Politics as the "study of influence and the influential" with emphasis upon devices by which the "few" control the "many."

Winter McKelvey 8:50-9:50 a.m.

160. PROBLEMS IN ADMINISTRATION. Case studies, administrative novels, and classic works on management are used to illustrate the practical dilemmas facing executives in business, and in governmental and other non-profit institutions.

Fall Lare 10:00-11:00 a.m.

Winter Lare 2:20-3:20 p.m.

165-265. SEMINAR IN URBAN STUDIES. Field research projects focusing on problems existing in the Los Angeles area are designed and conducted; studies will normally include interviews with key decision makers, observation and analysis of urban institutions, surveys of literature in such fields as welfare administration, urban renewal, economic development, and public finance. *Prerequisite: Political Science 15. Given in alternate years.*

Winter Lare Not given in 1969-70.

167-267. SEMINAR IN POLITICAL BEHAVIOR. An examination of interdisciplinary contributions to the development of a science of politics with emphasis on theoretical aspects of comparative and behavioralist studies, quantitative methods, and the major critiques of the behavioralist approach.

Winter Jaquette 3:25-4:25 p.m.

169-269. RESEARCH SEMINAR IN POLITICAL AND SOCIAL BEHAVIOR. Detailed investigation of selected contemporary problems dealing with the change in patterns of conflict, interaction, and the transformation of societies. *Prerequisite: Political Science 167-267.*

Fall Jaquette 3:25-4:25 p.m.

170-270. SEMINAR IN POLITICAL ECONOMY. Problems of interest to administrators in public life, labor and business enterprise. Leading figures from business, labor and government participate in the seminar discussions.

Spring McKelvey Thurs. 6:00-9:00 p.m. and arrange one hour.

199. HONORS.

Each Term Staff Arrange

301. RESEARCH. Individual study in depth of selected topics.

Each Term Staff Arrange

330. SEMINAR IN UNITED NATIONS PROBLEMS. Intensive research on selected United Nations problems.

Winter Mill Arrange

390. THESIS FOR MASTER OF ARTS DEGREE.

Each Term Staff Arrange

PSYCHOLOGY

PROFESSOR MAHLER, *Chairman*

PROFESSOR BRIGHOUSE

PROFESSOR COLE

PROFESSOR JENNINGS

ASSOCIATE PROFESSOR SHENFELD

MR. SWENSON, *Instructor*

The courses in Psychology are directed toward an understanding of human behavior, an appreciation of its complexity, and the many issues associated with its control. Human behavior is influenced by factors in one's environment, background experience, and physiological conditions; psychology attempts to describe and study these influences with scientific accuracy and caution. Such studies have a twofold function: (1) as a cultural contribution to the general student; (2) as part of the preparation for the professions of psychology, teaching, social service, medicine, law, psychiatric social work, and personnel administration.

MAJOR: Seven courses from this department: Psychology 1, 2; one course from 133, 134, 135, 136; and four additional courses from the department, chosen in consultation with the major adviser. Students anticipating graduate work for the Ph.D. are advised to include Psychology 101, 102, 105, 165, and 190 in their programs.

Each student is expected to select one of the regular full-time faculty members from the department as his adviser. He should consult with his adviser near the end of each term relative to his course program for the following term.

MAJOR WITH AN EMPHASIS IN POLITICAL AND SOCIAL BEHAVIORAL STUDIES: Students wishing to major with this interdisciplinary emphasis are to register their intention with the chairman of the department. The interdisciplinary required core courses are: Mathematics 19; Political Science 150 or Political Science 160, Political Science 167, Political Science 169; Sociology 12 or Anthropology 10. In addition to the core of five courses, each student will take six courses in the department selected in consultation with an adviser. Strongly recommended for all students, but not required: Mathematics X3. (See page 48.)

PSYCHOLOGY

MAJOR WITH AN EMPHASIS IN URBAN STUDIES: Students wishing to participate in this disciplinary program are to register their intention with the chairman of the department. In addition to six courses in the department selected in consultation with an adviser, each student will take Mathematics 19, Political Science 15, Political Science 50, Political Science 150 or Political Science 160, Political Science 165, Sociology 125 or Sociology 175, Sociology 185; and one course relevant to the emphasis selected either from those courses listed under Urban Studies (page 51) or from departments other than the three offering the program (e.g., Geology 10, Economics 125, or History 41). Strongly recommended for all students, but not required: History of Ideas 53, Mathematics X3, and Sociology 165. (See page 50.)

HONORS: With the approval of the staff, qualified majors may complete a program of Departmental Honors for graduation, including a senior thesis. Consult major adviser concerning details. Honors candidates are expected to complete Psychology 165, 190 and 191.

GRADUATE WORK: The Department of Psychology is prepared to accept each year a very small number of select candidates for the Master of Arts degree. These persons should be capable of subsequent pursuit of the Ph.D. at another institution. The graduate program in the department stresses independent study, tutorial work, and individual experimental research. Unless already fully qualified in the areas, the student will be expected to take further work in psychological statistics, physiological psychology, and contemporary problems of psychology offered in the department. Other tutorials and research projects will be undertaken in accordance with the student's goals, interests, deficiencies in background, and the capabilities of the staff. The student will complete the requirements for the degree through registrations in Psychology 301, Research, and the completion of a thesis for the Master of Arts degree under the listing of Psychology 390, Thesis.

1. INTRODUCTION TO PSYCHOLOGY. Introduction to the primary subject matter areas, assumptions and methods of psychology as the science of human and animal behavior. Topics include: learning, perception, motivation, emotion, intelligence and personality.

<i>Fall</i>	Cole	Section 1: 7:45-8:45 a.m.
	Swenson	Section 2: 1:15-2:15 p.m.
<i>Winter</i>	Swenson	Section 1: 1:15-2:15 p.m.
	Shenfeld	Section 2: 2:20-3:20 p.m.
<i>Spring</i>	Mahler	Section 1: 1:15-2:15 p.m.
		Section 2: 2:20-3:20 p.m.

PSYCHOLOGY

2. **PSYCHOLOGICAL METHODOLOGY.** An integrated introduction to psychological statistics, measurement, and research design. Exercises in data gathering, statistical treatment of data, and report writing. *Prerequisite: Psychology 1.*

<i>Fall</i>	Mahler	1:15-2:15 p.m.
<i>Winter</i>	Mahler	11:05 a.m.-12:20 p.m.
<i>Spring</i>	Mahler	8:50-9:50 a.m.

101. **LEARNING.** Consideration of contemporary research and theory related to learning. *Prerequisite: Psychology 1.*

<i>Spring</i>	Swenson	10:00-11:00 a.m.
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102. **PERCEPTION.** Consideration of contemporary research and theory related to perception. *Prerequisite: Psychology 1.*

<i>Fall</i>	Jennings	2:20-3:20 p.m.
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105. **HISTORY AND SYSTEMS OF PSYCHOLOGY.** Historical development of the field, and consideration of major systematic positions.

<i>Fall</i>	Cole	10:00-11:00 a.m.
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121. **DEVELOPMENTAL PSYCHOLOGY.** Principles of child and adolescent psychology. *Prerequisite: Psychology 1.*

<i>Fall</i>	Shenfeld	11:05 a.m.-12:20 p.m.
<i>Spring</i>	Shenfeld	11:05 a.m.-12:20 p.m.

122. **PHYSIOLOGICAL PSYCHOLOGY.** The role of the sense organs, nervous system, muscles and glands in human behavior and personality.

<i>Spring</i>	Jennings	8:50-9:50 a.m.
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123. **SOCIAL PSYCHOLOGY.** Psychological aspects of the interrelationship of individual and group. Formation and change of social attitudes. Psychology of belief. *Prerequisite: Psychology 1 or 2.*

<i>Winter</i>	Cole	1:15-2:15 p.m.
<i>Spring</i>		11:05 a.m.-12:20 p.m.

130. **ABNORMAL PSYCHOLOGY.** The psychological study of mental deficiency, neurosis, psychosis and other primary behavior disorders. *Prerequisite: Psychology 1.*

<i>Fall</i>	Jennings	11:05 a.m.-12:20 p.m.
<i>Winter</i>	Brighthouse	10:00-11:00 a.m.
<i>Spring</i>	Brighthouse	10:00-11:00 a.m.

131. **CLINICAL PSYCHOLOGY.** Diagnosis and treatment of psychological disorders. *Prerequisite: Psychology 130.*

<i>Winter</i>	Shenfeld	11:05 a.m.-12:20 p.m.
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133. **EXPERIMENTAL PSYCHOLOGY: LEARNING.** Laboratory investigations of problems in the psychology of learning and thinking. *Prerequisite: Psychology 2.*

<i>Fall</i>	Swenson	3:25-4:25 p.m.
<i>Spring</i>	Swenson	3:25-4:25 p.m.

134. **EXPERIMENTAL PSYCHOLOGY: PERSONALITY.** Laboratory investigations of problems in the scientific study of personality. *Prerequisite: Psychology 2.*

<i>Fall</i>	Shenfeld	2:20-3:20 p.m.
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135. **EXPERIMENTAL PSYCHOLOGY: SOCIAL AND GROUP PROCESS.** Experimental investigations of small group interactions. *Prerequisite: Psychology 2.*

<i>Winter</i>	Mahler	2:20-3:20 p.m.
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136. EXPERIMENTAL PSYCHOLOGY: PERCEPTION. Laboratory investigations of problems in perception. *Prerequisite: Psychology 2.*

Winter Swenson 3:25-4:25 p.m.

138. INDUSTRIAL AND PERSONNEL PSYCHOLOGY. Applications of psychology to the study of industrial and personnel problems, including such areas as human relations, selection, training, and morale. *Prerequisite: Psychology 1.*

Fall Brighthouse 10:00-11:00 a.m.

147. THEORY AND MEASUREMENT OF INTELLIGENCE. Theories of intelligence and theory and problems in the construction of intelligence, aptitude, achievement, attitude, and interest tests. *Prerequisite: Psychology 1 and 2. Given in alternate years.*

Fall Mahler Not given in 1969-70.

148. THEORY AND MEASUREMENT OF PERSONALITY. Theories of personality, and measurement of personality by self-inventory and projective techniques. *Prerequisite: Psychology 1 and 2. Given in alternate years.*

Winter Cole 8:50-9:50 a.m.

165. ADVANCED PSYCHOLOGICAL STATISTICS. Critical application of varied techniques including Chi-Square, Analysis of Variance, Prediction, Small Sample Reliability, Partial and Multiple Correlation, and non-parametric statistics to research design in psychology. *Prerequisite: Psychology 2.*

Fall Mahler 8:50-9:50 a.m.

190. PROBLEMS IN CONTEMPORARY PSYCHOLOGICAL THEORY. Detailed investigation of selected contemporary problems in psychological theory construction and evaluation. *Prerequisite: Permission of instructor.*

Winter Jennings and Staff 3:25-4:25 p.m.

191. RESEARCH SEMINAR. Detailed experimental study of selected individual problems. *Prerequisite: Permission of instructor.*

Spring Jennings and Staff 3:25-4:25 p.m.

197. SPECIAL TOPICS. *Prerequisite: Permission of instructor.*

Each Term Staff Arrange

198. RESEARCH. *Prerequisite: Permission of instructor.*

Each Term Staff Arrange

301. RESEARCH. Investigations of major projects.

Each Term Staff Arrange

390. THESIS FOR MASTER OF ARTS DEGREE.

Each Term Staff Arrange

RELIGIOUS STUDIES

PROFESSOR BEEBE, *Chairman*

ASSOCIATE PROFESSOR JOSSELYN

ASSISTANT PROFESSOR BAMMEL

Courses in Religious Studies examine the literature and history of the world's great religious traditions in order to clarify their origins, nature, beliefs, and practices. Special attention is given to the social and intellectual problems which characterize the relationships of the great religions to the civilizations of which they were and are a part. The major in Religious Studies is particularly suitable to students whose academic objective is a firm grounding in the liberal arts. It is also effective preparation for students who intend to pursue work in the humanities, social sciences, education, theology, or church vocations at the graduate level. Four programs in the major are offered: the standard major is designed for students who expect to continue work at the graduate level in theology or who anticipate active participation as laymen in religious institutions; the other three programs are designed for students who wish to stress an interdisciplinary approach to religious studies.

MAJOR IN RELIGIOUS STUDIES: Nine courses including Religious Studies 1 or 2, 11 or 12; 125, 128 or 130; 154 or 155; 158, 161 or 163; 190; Philosophy 1 or 104; and two courses chosen from other offerings in Religious Studies. Other courses, for example Philosophy 101 and 102, might be selected in consultation with advisers in the department.

MAJOR IN THE STUDY OF RELIGION AND SOCIETY: HISTORICAL APPROACH: Nine courses: Religious Studies 11, 12; 128 or 130; 132; 158 or 163; Anthropology 2, 10, 130, 150. Other courses, for example History 1 and 110, might be selected in consultation with advisers in the departments of Religious Studies and of Sociology and Anthropology.

MAJOR IN THE STUDY OF RELIGION AND SOCIETY: FUNCTIONAL APPROACH: Nine courses: Religious Studies 1, 2; 128 or 130; 154; 161 or 163; Sociology 12, 124, 125, 157. Other courses, for example Psychology 121 and Anthropology 130, might be selected in consultation with advisers in the departments of Religious Studies and of Sociology and Anthropology.

MAJOR IN THE STUDY OF RELIGION AND LITERATURE: Ten courses: Religious Studies 11, 12, 128 or 130; 154 or 155; 161 or 163; English and Comparative Literature 35, 101, 103; 152 or 162; 180 or 181. Other courses, for example History 122 and 125, might be selected by students in consultation with advisers in the departments of Religious Studies and of English and Comparative Literature.

(Course substitutions in any of the above programs may be arranged.)

1. INTRODUCTION TO BIBLICAL LITERATURE. A panorama of biblical literature emphasizing its influences upon literary, artistic, social, and theological expressions in world cultures.

Fall Beebe 1:15-2:15 p.m.

2. INTRODUCTION TO JUDEO-CHRISTIAN AND ASIAN TRADITIONS. A description of religious traditions citing their sources, uses of religious language, understandings of God, man, nature, community, and religious practices.

Fall Josselyn 2:20-3:20 p.m.

Winter Josselyn 2:20-3:20 p.m.

Spring Josselyn 2:20-3:20 p.m.

11. HEBREW LIFE AND LITERATURE. Examination of the Old Testament emphasizing modern interpretations as well as literary, historical, and religious influences of the ancient Near East.

Winter Beebe 1:15-2:15 p.m.

12. EARLY CHRISTIAN LIFE AND LITERATURE. Examination of the New Testament with attention upon modern usages as well as the literary, historical, and religious contacts with Greco-Roman and Judaic cultures.

Spring Beebe 1:15-2:15 p.m.

125. HISTORY OF JEWISH THOUGHT. A survey of Jewish thought stressing the great ancient and modern interpreters of Judaism.

Winter Staff* 8:50-9:50 a.m.

128-228. RELIGIONS OF INDIA, SOUTHEAST ASIA, AND THE MIDDLE EAST. A study of the history, beliefs, and present practices of Hinduism, Jainism, Sikhism, Theravad and Mahayana Buddhism, and Islam.

Fall Josselyn 8:50-9:50 a.m.

130-230. THE RELIGIONS OF CHINA AND JAPAN. A study of the history, beliefs, and present practices of Taoism, Confucianism, Japanese Buddhism, and Shinto.

Spring Josselyn 8:50-9:50 a.m.

132. THE ANCIENT NEAR EAST. Archaeological discoveries of the nineteenth and twentieth centuries, modern methods of excavation, literary and artistic contributions of Ancient Near Eastern culture to Western civilization.

Spring Beebe 7:45-8:45 a.m.

154. ETHICS IN THE CONTEXT OF RELIGION. An examination of contemporary Christian thought on such issues as international relations, social policy, race relations, sex, and communications. *Prerequisite: Religion 1, 2, 11, or 12.*

Fall Bammel 1:15-2:15 p.m.

*Under auspices of Jewish Chautauqua Society.

RELIGIOUS STUDIES

155-255. CURRENT TRENDS IN CHRISTIAN THOUGHT. Religious thinkers (Tillich, Niebuhr, et al.) and schools of religious thought (Fundamentalism, Neo-Evangelicalism, Liberalism, Neo-Orthodoxy) which are dominant in contemporary America.

Winter Josselyn 8:50-9:50 a.m.

158. KEY QUESTIONS IN PHILOSOPHICAL THEOLOGY. A treatment of relationships between theology and philosophy, reasons for and against theistic belief, methods in establishing reasonable beliefs, the structure and function of religious language, and the models by which to understand religious experience. *Prerequisite: Philosophy 104 or permission of instructor.*

Fall Bammel 10:00-11:00 a.m.

161. RELIGION IN CONTEMPORARY LITERATURE. Analysis of religious themes in contemporary literature; emphasis upon the literary and theological uses of the Bible by contemporary novelists and poets.

Winter Beebe 10:00-11:00 a.m.

163. MODERN CULTURE AND THE RELIGIOUS QUEST. A study of relationships of cultural expressions and contemporary religious beliefs and practices; how religious expressions manifest themselves in art forms in the midst of "cultural crisis."

Winter Bammel 11:05 a.m.-12:20 p.m.

190. SEMINAR. Concentrated study of a major problem or figure. *Prerequisite: Permission of instructor.*

Spring Bammel 3:25-4:25 p.m.

SOCIOLOGY AND ANTHROPOLOGY

ASSOCIATE PROFESSOR LITTLETON, *Chairman*

PROFESSOR SHELDON

MR. HENRY, *Instructor*

MR. HILLEBRAND, *Instructor*

DR. KUBE, *Research Associate*

Sociology and Anthropology share a common aim: the further understanding of man as a social and cultural being. There exists, however, a division between the two disciplines, and the department's curriculum reflects this division. Courses in Sociology focus on the structure and function of institutions in contemporary, complex societies; those in Anthropology are primarily concerned with the cultural and social patterns present in primitive and prehistoric societies. The study of the physical origin and evolution of the human species falls within the province of Anthropology and is an integral part of the department's program in this field.

A major in the Department of Sociology and Anthropology provides the student with: (1) the undergraduate training prerequisite to advanced study and research in social anthropology, sociology, and archaeology, culminating in a professional career in these fields; (2) the basis for careers in social welfare, criminology and probation work, and public administration; (3) the training essential to effective participation in social action programs; (4) the substantive prerequisites for teaching social studies; and (5) the broad background in social and cultural relations now so often demanded of those who would seek a career in the managerial ranks of private industry or in government service.

In order to satisfy the varied needs and interests of its students, the department offers three emphases and participates in two interdisciplinary programs.

MAJOR WITH AN EMPHASIS IN SOCIOLOGY: Sociology 12, 13; Anthropology 10; Sociology-Anthropology 159; and four other departmental offerings in sociology, to be chosen in consultation with adviser. Mathematics 19 is also required. Students planning to do graduate work or research in sociology should take Sociology-Anthropology 191. Students planning to enter social welfare programs should normally take Sociology 165, 166, and 175. Mathematics X2, X3, and X5 are recommended.

SOCIOLOGY AND ANTHROPOLOGY

MAJOR WITH AN EMPHASIS IN ANTHROPOLOGY: Anthropology 1, 10; Sociology 12; Sociology-Anthropology 159; and four other departmental offerings in anthropology, to be chosen in consultation with adviser. Mathematics 19 is also required. Students planning to do graduate work or research in social anthropology should ordinarily take Sociology-Anthropology 191. Geology 1, 2; Political Science 101, 102; Economics 109; Religion 132; and History 145, 166 are recommended.

MAJOR WITH EQUAL EMPHASIS IN SOCIOLOGY AND ANTHROPOLOGY: Anthropology 10; Sociology 12; Sociology-Anthropology 159; three other departmental offerings in sociology; three other departmental offerings in anthropology; to be chosen in consultation with adviser. Mathematics 19 is also required.

MAJOR WITH AN EMPHASIS IN POLITICAL AND SOCIAL BEHAVIORAL STUDIES: Students planning to participate in the interdepartmental program in Political and Social Behavioral Studies should take the following courses outside the department: Political Science 150, Political Science 167, Political Science 169, Psychology 2 and Psychology 123 (Sociology-Anthropology majors will be excused from the requirement of taking Psychology 1), and Psychology 135. Strongly recommended for all students, but not required: Mathematics X3. (See page 48.)

MAJOR WITH AN EMPHASIS IN URBAN STUDIES: Students planning to participate in the interdepartmental program in Urban Studies should take the following courses outside the department: Political Science 15, Political Science 165, and two other Political Science courses relevant to the emphasis: Psychology 1 and Psychology 123; and one course relevant to the emphasis selected either from those courses listed under Urban studies (page 51) or from departments other than the three offering the program (e.g., Geology 10, Economics 125, or History 41). Strongly recommended for all students, but not required: History of Ideas 53, Mathematics X3, and Sociology 165. (See page 50.)

Students planning to participate in either of the above programs should consult with their major adviser about courses within the department. Students are referred also to the interdepartmental major in Diplomacy and World Affairs (page 46.)

The comprehensive examinations emphasize the interrelationships and integration of the courses selected by the student. The student is expected to demonstrate a broad familiarity with the ideas presented in these courses.

HONORS: Majors in the department may qualify for Departmental Honors for graduation through independent study, including a senior thesis. Consult the department chairman concerning details.

SOCIOLOGY AND ANTHROPOLOGY

The department is willing to receive and consider proposals from individual students for combined programs.

For further information about the department and its program, including the several intradepartmental emphases, see the most recent edition of *Sociology and Anthropology at Occidental*, the department's handbook for majors and prospective majors. Copies may be obtained from the department chairman.

ANTHROPOLOGY

1. HUMAN ORIGINS. Introduction to physical anthropology and archaeology; the evolution of *Homo sapiens*; the primary stages of cultural evolution.

Winter Hillebrand 2:20-3:20 p.m.

2. THE DAWN OF CIVILIZATION. The origins of Old and New World civilizations; a comparison of the post-glacial archaeological sequences of the Near East, Eastern Europe, India, China, Middle America, and Peru; theories of social and cultural evolution.

Spring Hillebrand 1:15-2:15 p.m.

10. MAN AND CULTURE. Introduction to cultural and social anthropology; the culture of man in the primitive world; comparative institutions.

Fall Hillebrand 2:20-3:20 p.m.

Spring Hillebrand 2:20-3:20 p.m.

123-223. PERSONALITY AND CULTURE. The relationship between social and cultural processes and personality formation; the influences of group life in primitive and modern societies on personality change; theories of modal personality. *Prerequisite: Sociology 12 or Anthropology 10. Given in alternate years.*

Winter Littleton 10:00-11:00 a.m.

128. COMPARATIVE SOCIAL INSTITUTIONS. A comparative survey of the major social institutions, with emphasis upon folk and primitive societies; analysis of the group structures, status and role systems, authority patterns, values, and ideologies that underlie institutional behavior. *Prerequisite: Anthropology 10 or Sociology 12.*

Fall Littleton 11:05 a.m.-12:20 p.m.

130. MYTH AND RITUAL. Anthropological theories as to the origin, nature, and evolution of religious phenomena; the social functions of myth and ritual; a survey of primitive and prehistoric religious beliefs and practices. *Given in alternate years.*

Winter Littleton Not given in 1969-70.

150. LANGUAGE AND CULTURE. The relationship between linguistic forms and cultural patterns; the Sapir-Whorf hypothesis; language and ideology. *Given in alternate years.*

Spring Littleton Not given in 1969-70.

151-251. HISTORICAL LINGUISTICS. The criteria in terms of which languages are grouped into families and subfamilies; techniques of historical reconstruction; lexicostatistics. *Given in alternate years.*

Spring Littleton 10:00-11:00 a.m.

SOCIOLOGY AND ANTHROPOLOGY

153. PEOPLES OF LATIN AMERICA. The major contemporary social and cultural patterns of Latin America, with emphasis upon Indian and peasant communities. *Given in alternate years.*

Fall Hillebrand Not given in 1969-70.

155. PEOPLES OF SOUTH AND SOUTHEAST ASIA. The major contemporary social and cultural patterns of South and Southeast Asia, with emphasis upon village communities. *Given in alternate years.*

Spring Littleton Not given in 1969-70.

156. ABORIGINAL CULTURES OF NORTH AMERICA. An investigation of the archaeological development of the native cultures of North America to the time of European contact; an ethnographic survey of North American Indians. Attention will also be focused upon the demise of these cultures, as well as upon the problems of contemporary Indian populations. *Given in alternate years.*

Fall Hillebrand 10:00-11:00 a.m.

170. ACCULTURATION AND APPLIED ANTHROPOLOGY. An examination of the processes that occur when two or more social systems of unequal complexity come into sustained contact: imperialism, racism, colonialism, cryptogenocide, nativism, revitalization movements, revolution, syncretism, assimilation, and cultural pluralism. A consideration of the roles played by anthropologists in mediating rapid social and cultural change in Africa, Southeast Asia, Latin America, Oceania, and elsewhere; the moral and ethical problems involved in action research, especially that sponsored by governmental agencies. *Given in alternate years.*

Spring Littleton 8:50-9:50 a.m.

SOCIOLOGY

12. ELEMENTS OF SOCIOLOGY. An introduction to the fundamental concerns of sociology, with emphasis upon current theory and research; an attempt is made to demonstrate the variety of ways in which men are shaped, influenced, and controlled by their society.

Fall Henry 1:15-2:15 p.m.

Spring Sheldon 11:05 a.m.-12:20 p.m.

13. INTRODUCTION TO SOCIAL RESEARCH. An introduction to selected research techniques used in sociology and social anthropology with special emphasis upon participant observation, interviewing, and questionnaires. The overall aim of the course is to teach students how to ask valid sociological questions. The use of statistics in description and decision making; pitfalls and dilemmas in the study of human behavior. *Prerequisites: Sociology 12 or Anthropology 10; Mathematics 19 or equivalent.*

Winter Henry 2:20-3:20 p.m.

56. THE ETHNIC REVOLUTIONS. The causes, development, and results of the principal ethnic protest movements and revolutions, with emphasis upon the period 1955 to the present. An analysis of the impact of these movements on American legal, social, educational, and political institutions.

Spring Staff 3:25-4:25 p.m.

119. THE AMERICAN FAMILY. Functions and values in conflict; sex-role changes; historical development of the modern American family; possible reforms and future trends.

Winter Sheldon Not given in 1969-70.

SOCIOLOGY AND ANTHROPOLOGY

124-224. INTERGROUP RELATIONS. Processes of culture contact and interaction; comparative analysis of intercultural relations in various world areas; the study of social, racial, economic, and political minorities; tensions, assimilation, and cultural pluralism.

Spring Sheldon 8:50-9:50 a.m.

125. DEVIANCE, CRIME, AND DELINQUENCY. A survey of theory and research concerned with the extent and explanations of deviant behavior with special consideration of the problematic line between deviant, criminal, and normal behavior; problems in the statistics of crime; police enforcement practices; prisons; rehabilitation and parole practices. *Prerequisite: Sociology 12.*

Spring Henry 1:15-2:15 p.m.

140. THE SOCIOLOGY OF SOCIAL MOVEMENTS. For 1969-70: The social organization of contemporary revolutionary social movements; special emphasis is on an examination of the development of ideologies in revolutionary movements, changing types of leadership and constituency, and the importance of public reaction to the development of movements. The class will attempt to make predictions about future developments in a selected contemporary revolutionary movement. *Prerequisite: Sociology 12 or Anthropology 10. Given in alternate years.*

Spring Henry 2:20-3:20 p.m.

154. SOCIAL PROBLEMS. Theories of value conflict; social change and its consequences on social life; comparison of problem genesis and solutions in American and other societies; social control and planning. *Prerequisite: Anthropology 10 or Sociology 12.*

Spring Sheldon Not given in 1969-70.

157-257. AMERICAN SOCIAL INSTITUTIONS. An examination of selected social institutions such as mental illness, dying, and face-to-face interaction. A special concern is to introduce students to dramaturgical (Goffman) and ethnomethodological (Garfinkel) studies. *Prerequisite: Sociology 12 or Anthropology 10.*

Fall Henry 2:20-3:20 p.m.

160. SOCIAL STRATIFICATION. The forms and functions of inequality; social classes and their consequences; change of stratification systems. Special emphasis is on the condition of the lower classes. *Prerequisite: Sociology 12 or Anthropology 10.*

Spring Henry Not given in 1969-70.

165. FIELD WORK. Supervised observation and experience in urban institutions including social welfare, probation, and city planning; writing and analyzing community organization records and presenting reports. *Prerequisite: permission of instructor.*

Winter Sheldon Arrange

166. FIELD WORK. Continuation of Sociology 165.

Spring Staff Arrange

175. SOCIAL WELFARE. Historical background of programs of social welfare; development of the profession of social work, with emphasis on case work and child welfare; current administrative practices of public and private agencies; evaluation of anti-poverty programs and the use of indigenous community workers.

Spring Sheldon Not given in 1969-70.

SOCIOLOGY AND ANTHROPOLOGY

185. THE MODERN CITY. Historical development of cities on all continents; problems of urban living; a survey of studies in urban rehabilitation and city planning; the megalopolis. *Prerequisite: Anthropology 10 or Sociology 12.*

Winter Sheldon 11:05 a.m.-12:20 p.m.

SOCIOLOGY-ANTHROPOLOGY

159. SEMINAR IN THE HISTORY OF SOCIOLOGICAL AND ANTHROPOLOGICAL THEORY. The growth and development of theory in sociology and anthropology, with emphasis upon the nineteenth and twentieth centuries. *Prerequisites: Anthropology 10 and Sociology 12.*

Winter Littleton 2:20-3:20 p.m.

191. SEMINAR IN THEORY AND METHODOLOGY. A critical survey of current theoretical and methodological issues in sociology and anthropology; special emphasis is given to research design and to the indivisible relationship between theory and research. *Prerequisite: permission of instructor.*

Winter Henry 3:25-4:25 p.m.

197. SPECIAL TOPICS

Each Term Staff Arrange

198. RESEARCH.

Each Term Staff Arrange

199. HONORS.

Each Term Staff Arrange

SPEECH AND DRAMA

PROFESSOR PAXSON, *Chairman*

PROFESSOR FREESTONE

MR. FREEMAN, *Instructor*

MR. PABEN, *Instructor by Special Appointment*

DR. GRIFFITHS, *Lecturer*

A student in the Department of Speech and Drama explores the intellectual, emotional, and physical bases of communication, and may emphasize the rhetorical, or creative or physiological aspects of the department. The improvement and enrichment of these aspects require individual study and performance, as well as interdisciplinary work. To those ends, the student is encouraged to accept the responsibility of independent reading and counselled study, which lead to evaluation, interpretation, criticism, and appreciation as related to the dynamic use of the spoken and written word. The student augments his study and research by performance and laboratory participation in forensics, drama, and speech therapy.

MAJOR: Ten courses from this department, chosen in consultation with the major advisor. Course requirements are limited to Speech-Drama 181. Two of the ten courses may be in applied laboratory work—Speech-Drama X10, X20, X30, Music (voice), Physical Education (dance).

A major in the department is free to select his own program of study under the guidance of his faculty adviser. The department has established standards of excellence in study and performance which the student will be expected to meet by a three-part comprehensive examination: (1) written (2) oral (3) a public presentation in the area of special interest. Information concerning all phases of the comprehensive examination are available through the Chairman of the Department of Speech and Drama.

The department enthusiastically welcomes interdisciplinary programs and will work carefully with interested students in formulating such programs.

HONORS: An Honors Program is open to Speech and Drama majors. Candidates must show evidence of exceptional ability in the areas of research and creativity. For details, consult the chairman of the department.

SPEECH AND DRAMA

1. FUNDAMENTALS OF EFFECTIVE SPEAKING. Study of the elements related to speech organization, speech delivery, and audience analysis. Emphasis upon student performance.

Fall Freestone 7:45-8:45 a.m.
Winter Freestone 7:45-8:45 a.m.
Spring Freestone 11:05 a.m.-12:20 p.m.

X10. APPLIED SPEECH. Forensics laboratory.

Each Term Paben 1/6 course per term Arrange

11. INTRODUCTION TO ORAL INTERPRETATION OF LITERATURE. Techniques and skills related to the art of oral interpretation drawn from the intrinsic and extrinsic factors in prose and poetry.

Fall Paxson 2:20-3:20 p.m.
Winter Paben 1:15-2:15 p.m.
Spring Paben 1:15-2:15 p.m.

12. THE HISTORY AND AESTHETICS OF THE CINEMA. An introduction to major trends in the history of the cinema and a consideration of important aesthetic issues, with special attention to the question of how one evaluates a film. The laboratory sessions will be devoted to the viewing of films and discussion.

Laboratory fee (for enrolled students and auditors): \$10.00

Spring Kinder* Lecture: Mon.-Wed. 2:20-3:20 p.m.
 Laboratory: Tues.-Thurs. 2:20-4:20 p.m.

X20. APPLIED DRAMA. Participation in theater activities.

Each Term Paxson 1/6 course per term Arrange
 and
 Freeman

21. INTRODUCTION TO THE THEATRE. Theatre as an art form. Theatrical analysis of dramatic literature, theatrical criticism, stage nomenclature. Theatre visitation required.

Winter Paxson 3:25-4:25 p.m.

X30. APPLIED THERAPY. Laboratory participation in Speech and Reading.

Each Term Freestone 1/6 course per term Section 1: 3:25-4:25 p.m.
 (Mon.-Wed.)
 Freestone 1/6 course per term Section 2: 4:30-6:00 p.m.
 (Mon.-Wed. or Tues.-Thurs.)

51. ARGUMENTATIVE AND PERSUASIVE SPEAKING. Advanced public speaking. A study of the logical and emotional bases of argument.

Fall Paben 11:05 a.m.-12:20 p.m.

71. ACTING. Study of the physical, mental, and emotional bases of performance. Performance in Playmill programs.

Fall Freeman 3:25-4:25 p.m.

102-202. PSYCHOLOGY OF COMMUNICATION. The cognitive, semantic, and speech bases of normal and disordered communication, including listening, reading, speaking, spelling, and writing.

Winter Freestone 8:50-9:50 a.m.

111-211. ORAL INTERPRETATION OF DRAMATIC LITERATURE. Analysis and presentation of dramatic literature. Emphasis upon Greek, Elizabethan, eighteenth century, and contemporary drama. Reading performances.

Winter Paxson 10:00-11:00 a.m.

*Of the Department of English and Comparative Literature.

112. READER'S THEATRE. Interpretation and staging of nondramatic literature in traditional and experimental styles. Short stories, letters and diaries, essays.

Spring Paxson 2:20-3:20 p.m.

121-221. HISTORY OF THE THEATRE. Survey of plays, dramatic presentations, and theatrical figures of major periods.

Spring Paxson 1:15-2:15 p.m.

131. INTRODUCTION TO PRINCIPLES OF SPEECH THERAPY. Nature and causes of speech defects. Clinical visitations.

Each Term Freestone Arrange

132. AURAL REHABILITATION. Audiometric and therapeutic bases for the training and management of the deaf and hard-of-hearing. *Prerequisite: Speech-Drama 31, 81, or 102.*

Winter Griffiths Arrange

133. LIP READING. Problems and techniques of speech reading for the aural handicapped. *Prerequisite: Speech-Drama 31, 81, or 102.*

Spring Griffiths Arrange

152. GROUP DYNAMICS. Theory, principles, and methods of group dynamics, leadership, and discussion.

Winter Paben 11:05-12:20 p.m.

172-272. DIRECTING. Examination and application of directing principles. Direction of Playmill program required.

Fall Paxson 2:20-3:20 p.m.

173. DESIGN FOR THE THEATRE I. Historical and stylistic development of the art of theatrical design. Introductory methods of rendering designs for the theatre. *Given in alternate years.*

Spring Freeman *Not given in 1969-70.*

174. DESIGN FOR THE THEATRE II. Principles and techniques of applied design including scene construction and painting, lighting design and execution. Practical methods of technical drawing for the theatre. *Given in alternate years.*

Spring Freeman 3:25-4:25 p.m.

181. VOICE AND DICTION. Study of the physical bases of speech and hearing; voice science, articulation, and critical auditing for defective speech.

Spring Freestone 8:50-9:50 a.m.

197. SPECIAL TOPICS.

Each Term Staff Arrange

199. HONORS.

Each Term Staff Arrange

301. ADVANCED STUDIES AND RESEARCH. Research methodology. Special problems, for investigation and report, in theatre, interpretation, rhetorical theory, language disorders, and other areas in speech and drama.

Each Term Staff Arrange

390. THESIS FOR MASTER OF ARTS DEGREE.

Each Term Staff Arrange

LIBRARY

TYRUS G. HARMSSEN, *College Librarian*
RUTH A. DIVELEY, *Acquisitions Librarian*
CYNTHIA WOOD, *Assistant Acquisitions Librarian*
BARBARA V. MYERS, *Catalog Librarian*
RAYMA ROUNDS, *Assistant Catalog Librarian*
MARIAN FELLNER, *Assistant Catalog Librarian*
JOHN SAEGER, *Reference Librarian*

Facing the central quadrangle is the Mary Norton Clapp Library. Within this building, gift of the Clapp family, are housed most of the library's 226,000 cataloged volumes, approximately 25,000 government documents, and 8,400 unbound periodicals. Available to Occidental faculty and students are basic reference and bibliographical tools necessary for an academic library and working materials for the various departments of instruction.

In the library building there are reading rooms adapted to serve various purposes — reference, current periodicals, browsing, documents, and graduate study. Other special quarters are provided for microfilm readers and typing. One of the most notable features of the library is the Braun Fine Book Room which houses the Carl F. Braun collection. Its design is based on an English eighteenth-century residential library, and along its walnut-paneled walls are books in the fields of art, literature, history, and travel; old and rare books; and modern examples of fine printing.

There are five floors of open stacks with individual carrels on each level. The Periodicals Division is on the ground floor and the Documents Division on the second floor. The library is a selective depository for California and United States publications and subscribes to United Nations materials as issued. In the foyer special book exhibitions are regularly featured.

Although most books are centrally housed in the Clapp Library, some departmental libraries are located in Fowler and Norris Halls where working collections are required in close proximity to laboratories. Musical scores and some music reference books are in the Music-Speech Center. All these materials are indexed in the library's main catalog. The collection on Ornithology, which forms part of the Moore Laboratory, is kept in that building.

The Student Library Committee serves as a liaison body between students and administration in library affairs, and each year student assistants are engaged for work in the library, some of whom are considering librarianship as a career.

At present the library is growing at a rate of about ten thousand volumes a year, and subscribes to more than 1,300 periodicals and newspapers. Endowment funds for book purchases now amount to a principal sum of \$305,956.

The library has received and continues to receive many important and valuable gifts of books and collections from generous donors and to all of them the College is grateful. Space does not allow any extensive listing but mention should be made of special grants received in the past from the Carnegie Corporation, the Ford Foundation, and the Rockefeller Foundation. Of particular importance to the library has been the Emma B. Norton Endowment and the support of Willis H. Booth and the Booth Ferris Foundation for the Booth Collection in Economics and the Social Sciences. Noteworthy among special collections are the following: Robinson Jeffers (Class of 1905)—first editions, letters, manuscripts and critical writings about this distinguished American poet; E. T. Guymon, Jr., Collection of Detective and Mystery Fiction; Earle V. Weller Collection of Romantic Literature—an extensive group of books by and about Keats and his circle; Elmer Belt Collection of Upton Sinclair—first editions and foreign translations; imprints of the Ward Ritchie Press; the F. Ray Risdon Lincoln Collection, containing over 3,000 books and 1,500 pamphlets; the John K. Northrop-Richard W. Millar Aviation Collection; the Robert Glass Cleland Collection on Latin America; a small but important collection of William Jennings Bryan's papers; the Max Hayward Collection of Californiana; the Edwin W. Pauley-Charles B. Voorhis Collection of Western Americana, containing rare overland travels; the William B. Pettus Collection of Chinese paintings; and an Occidentalia Collection. Located in the Booth Music-Speech Center is the Nelson Eddy Music Library.

LIBRARY ENDOWMENT FUNDS FOR BOOK PURCHASES

<i>Name and Purpose</i>	<i>Principal</i>
Associated Students of Occidental College (Library Books, Periodicals, and Records)	\$ 2,000
Booth Ferris Foundation (Willis H. Booth Collection in Economics and the Social Sciences)	100,000
George F. Cook (English and American Literature)	603
William W. Cumberland, '12	8,106
Emma Frances Lane Drummond (English Literature)	2,600
Mary Lou Fife, '50 (Southeast Asia)	1,141
David B. and Mary H. Gamble (Library Books and Periodicals)....	55,000
General (Library Books and Periodicals)	50,000
Osgood Hardy (History)	2,500

LIBRARY

Philip B. Kennedy, '06.....	\$ 5,000
Library Patrons (Library Books)	728
McAlister Endowment Fund for American Studies (from the Estate of Amelie McAlister Upshur).....	50,000
Karen Ingalls Mason, '68 (Sociology)	2,225
Carrie B. Michelson (Library Books)	14,882
Orra Eugene Monnette (Classical Literature)	500
Eloise Rush, '09 (Music Library)	1,000
William B. Stevenson (Social Sciences)	1,268
Charles Stimson (Philosophy and Religion)	10,000
Lucinda Snider (Orr Hall)	628



Seen with President Richard C. Gilman (R), author Luigi Barzini, a Remsen Bird Lecturer during 1968-1969. Other visiting lecturers during the academic year are pictured overleaf.



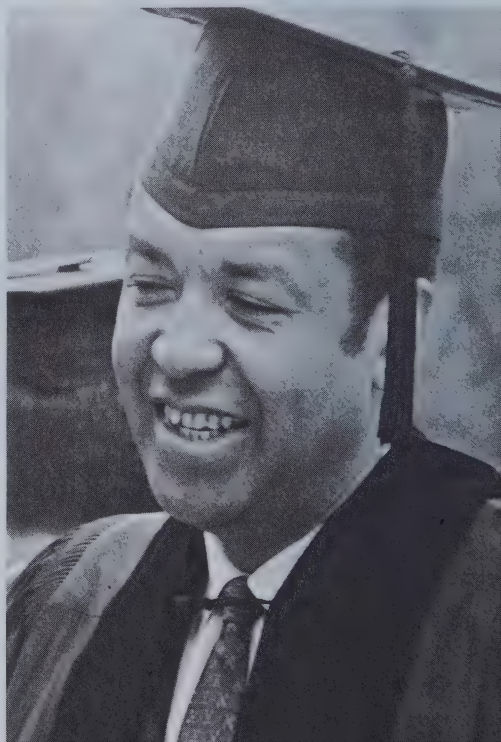
Photographer Ansel Adams



John K. Galbraith, Harvard economist



British economist Sir Roy Harrod



Judge A. Leon Higginbotham, Jr.

CAMPUS ORGANIZATIONS

The limited enrollment at Occidental College offers many opportunities for participation in student government and campus organizations, and there are many organized interest groups and societies on the campus. Those organizations listed here are the ones that have been active in recent years.

THE ASSOCIATED STUDENTS OF OCCIDENTAL COLLEGE

The student body sponsors a wide range of cultural, educational, recreational and social activities and controls certain student enterprises under the supervision of the college administration. The Associated Students operates under a constitution and by-laws, and is governed by the A.S.O.C. Senate. The members of the Senate include the four elected student body officers, three senators elected at-large, four by the men living in college residence halls, three by the women in college residence halls, and one each by the fraternities, the sororities, and the students living off campus. The Director of Student Activities acts as adviser to the A.S.O.C. Senate without voting power. The Senate meets at regular intervals to discuss student concerns, promote student activities, consider presidential appointments, appropriate student body funds, and reflect student attitudes on questions of administration policy. Senate meetings are open to all students.

The President of the Associated Students is the chief executive officer of the student body, is responsible for appointments to nonelective student offices, and coordinates the activities of the student body, in addition to serving as the A.S.O.C. representative in community and college life. Occidental students actively participate in the affairs of the College through representation on certain faculty and administrative committees and an interchange of ideas among administration, faculty, and students. Student organizations are considered an integral part of the Associated Students. The activities of the student body are financed by a fee (see page 172). By action of the Associated Students, this fee is required of all undergraduates and is collected by the College. Occidental students are members of the National Student Association and are active in conferences on regional, national, and world affairs.

THE ASSOCIATED WOMEN STUDENTS

All women students are members of the Associated Women Students. This organization coordinates the varied interests and activities of the women and has the responsibility of maintaining high standards of conduct in the

CAMPUS ORGANIZATIONS

residences and on the campus. One of the important functions of the A.W.S. Cabinet is to assist in the orientation of new students to college life through participation in the orientation program for new students and a carefully planned sponsor system maintained throughout the freshman year.

The Associated Women Students shares with the College administration the responsibility for the management of the residence halls and the establishment of standards for group living.

The Judicial Board assumes responsibility for seeing that residence rules and standards of good conduct are adequately interpreted and enforced. The chairman of the Judicial Board is appointed by the A.W.S. Cabinet. The Board is composed of at least one member from each women's residence.

JOINT RESIDENCE COUNCIL

Residence matters and problems are handled by the Joint Residence Council under the authority delegated by the Associated Students Senate. The council is composed of representatives chosen from the residence units. The president is elected from the membership of the Council.

HONOR ORGANIZATIONS

The Phi Beta Kappa Society, the first Greek letter fraternity in the United States, was founded at the College of William and Mary, December 5, 1776. The Occidental College chapter of Phi Beta Kappa is the Delta of California, established in 1926. The members are elected on the basis of excellence in scholarship and good moral character. Not more than one-eighth of each year's candidates for the degree of Bachelor of Arts may be elected; within this quota, elections are held in October, in January, and during Commencement week. Elections may also be made of Occidental alumni or others who have attained distinction in the field of liberal arts or in the learned professions.

Honor societies are maintained by senior men and women. That of the men is known as D.O., to which not more than fifteen men may be elected at the end of the junior year on the basis of outstanding character, activity and leadership. The women's organization is the Dranzen chapter of Mortar Board, a national society which selects its members at the end of the junior year on the basis of service, scholarship and leadership. Each candidate must meet a specified scholarship standard above the general student body average. No chapter may have fewer than five nor more than twenty members.

Membership in Tiger Claws, a service organization of eighteen sophomore men under the guidance of two juniors, is based on recognition of leader-

CAMPUS ORGANIZATIONS

ship in student activities. Selections are made at the end of the freshman year.

Tiger Taps, a service organization of sophomore women, aims to promote interest in campus activities and to aid in orientation of new women. Membership in Tiger Taps is based on leadership, scholarship and participation in activities during the freshman year. Not more than twenty members may be chosen each year.

Other honor groups include Phi Alpha Theta, national history fraternity; Phi Mu Alpha Sinfonia of America, Eta Kappa Chapter, national music fraternity for men; Sigma Alpha Iota, national music fraternity for women; Phi Epsilon Kappa, national physical education fraternity for men; Psi Chi, national psychology fraternity; Zeta Phi Eta, national speech and dramatic fraternity for women; Sigma Xi Club, national scientific research organization; Sigma Pi Sigma, national physics society; Alpha Mu Gamma, national foreign language society; Tau Kappa Alpha, national forensics fraternity; Kappa Mu Epsilon, national mathematics undergraduate fraternity; Alpha Kappa Delta, national sociology fraternity; Delta Phi Epsilon, national foreign service fraternity, and Omicron Delta Epsilon, national economics honor fraternity.

INTERNATIONAL PROGRAMS

The international outlook of the College is reflected in many student activities at Occidental. The International Program is a coordinated effort involving the International Club, Model United Nations and Political Science Forum. The International Club includes students from many different countries, among them students from the United States who are interested in the other cultures. Model United Nations sends a delegation annually to the MUN Conference. The Political Science Forum offers a program of speakers and discussion on international politics.

Specific majors in Diplomacy and World Affairs in various regional areas indicate academic emphasis on international interests (see pages 46-47). For the past several summers Occidental has sent a delegation of its students to Africa on the "Crossroads Africa" project.

Students interested in foreign language and international affairs may apply to live in the International and Language Center with other students having comparable interests.

RELIGIOUS ORGANIZATIONS

The Occidental Ecumenical Religious Council is composed of representatives of the independent religious organizations on the campus. These groups include: The Occidental Christian Fellowship, Canterbury Club,

CAMPUS ORGANIZATIONS

Newman Club, Occidental Jewish Fellowship, the Christian Science Organization, the Unitarian Study Group, and the Latter-day Saints Study Group. Each of these maintains its own program and meets weekly.

The Council emphasizes the ecumenical dialogue between independent religious organizations, sponsoring many programs and activities including Sunday evening forums, retreats, study groups, and social action projects. Each year it coordinates a Student-Faculty Conference and also brings a distinguished churchman or theologian to the campus for a series of lectures on religious and secular issues.

Religious worship is available to the academic community on a voluntary basis every Sunday in Herrick Memorial Chapel. Speakers include the College Chaplain, ministers from many parts of the country, and members of the faculty and administration.

OTHER STUDENT SOCIETIES

Special interest groups maintained by the students include such organizations as the following: Occidental Players; Occidental Dance Group; Women's Recreational Association; Sailing Club; Ski Club; Alpha Chi Sigma, ing Club; Ski Club; Alpha Chi Sigma, national professional chemical fraternity; Student Affiliates of the American Chemical Society; Student Sectional professional chemical fraternity; Student Affiliates of the American Chemical Society; Student Section, American Institute of Physics; Occidental Conservative Union; Young Democrats; and Young Republicans.

Social organizations are available to both men and women on the campus. The men's organizations are: national fraternities of Alpha Tau Omega, Phi Gamma Delta, and Sigma Alpha Epsilon; and local fraternity Phi Sigma Omicron. The women's groups are the local sororities of Alpha Lambda Phi Alpha, Beta Phi Delta, Delta Omicron Tau, Gamma Kappa Theta, and Zeta Tau Zeta.

CAMPUS ACTIVITIES

Many opportunities ranging from regular ongoing enterprises to spontaneous activities are open to Occidental students in campus life.

A Committee on Student Life is a joint committee representing the administration, faculty, and the student body. This committee discusses many aspects of college policy and attempts to maintain a favorable balance between academic and extracurricular activities.

Student officers are charged with the responsibility for social events, and the Associate Deans and the Director of Student Activities work with student committees.

In addition to the many on-campus activities, Occidental's urban location offers students cultural and recreational opportunities which are available in the greater Los Angeles area. Among these are the Music Center, the Los Angeles County Museum of Art, the Huntington Library and Art Gallery, a wealth of theaters, museums, and galleries, as well as the facilities maintained by educational institutions in other parts of the city. A "Bengal Bus" owned by the Associated Students is available for transportation to various cultural events.

STUDENT PUBLICATIONS

Occidental students publish a number of publications throughout the college year. The college newspaper, "The Occidental," appears weekly, and consistently receives a high rating from the Associated Collegiate Press. "La Encina," the college annual, is published each spring. The student body and administration jointly issue each fall a "Handbook" of organizations and activities, for the benefit of new students. Financed mainly through student body funds, all of these publications are edited, managed, and staffed by students and afford excellent opportunity for experience to those who are interested in journalism. Editors are nominated by the A.S.O.C. president and appointed by vote of the Senate.

DRAMATIC PRODUCTIONS AND FORENSICS

Through the Occidental Players the Department of Speech and Drama brings to the campus each year three major dramatic productions. This schedule is supplemented by a series of student directed one-act and play-reading programs presented in the Playmill Theatre with emphasis on experimental and original student productions. The department also produces

CAMPUS ACTIVITIES

six interpretation and reader's theatre programs and five major dramatic productions in repertory during the College Summer Drama Festival.

The academic program of the Department of Speech and Drama is supplemented by practical experience in the fields of public speaking, debate, and public discussion, and performance experience in theatre activities. College credit toward graduation is granted for this work. Although the department believes there is a certain value in formal contest debating and in the conventional speech tournaments, it holds to the function of public speaking as an educational medium and therefore seeks to promote actual audience situations, emphasizing the process of sharing information, influencing opinion, and stimulating concrete audience response.

MUSIC

Various organizations offer interested students the opportunity to participate actively in musical performance. The College Choir, the Wind Ensemble (a concert band) and Orchestra, and the Men's and Women's Glee Clubs are open by tryout to students of average talent and ability. Each glee club has its round of local dates and home concert, and makes an annual tour. Small ensemble groups, instrumental and vocal, are given encouragement. The material studied and programmed by these organizations is chosen to stimulate and educate both participants and auditors and to present the best in contemporary composition as well as classic masterworks; familiarity with both is consciously sought.

Cultivation of individual talent in applied music is encouraged through private lessons and practice on campus; frequent student recitals give outlet for self-expression. Composition is fostered, and each year the best original student manuscripts are given public performance.

ATHLETICS

Opportunity is offered in many forms of intercollegiate and intramural sports for men and women, including tennis, baseball, football, basketball, volleyball, swimming, water polo, track, cross country, golf, sailing, soccer, rugby, modern dance, and gymnastics. The College believes in and encourages all forms of athletics and outdoor recreation for the physical development and well-being of its students.

Occidental is a member of the Southern California Intercollegiate Athletic Conference and each year schedules events with members of that conference as well as with other colleges and universities on the Pacific Coast. Eligibility for intercollegiate athletics is determined by the conference rulings which apply to all within the conference.

Women students compete in basketball, volleyball, tennis, and softball

CAMPUS ACTIVITIES

with teams from other colleges and universities through the membership of the College in the Extramural Coordinating Council of Southern California Colleges.

The College endeavors to safeguard students in the use of physical facilities, athletic fields and gymnasium, but it is clearly understood that students who use these facilities do so entirely at their own risk. (See pages 186-187 for statement of legal responsibility of the College and information concerning accident insurance.)

SPECIAL PROGRAMS

Occidental students have the rich educational experience of hearing and seeing much of the finest in the culture of Western civilization and of meeting distinguished personages brought to the campus under special programs.

College presentations in the performing arts include the annual Glee Club Home Concert and the Orchestra, Wind Ensemble (Band), and Dance Group Concerts. Occidental also presents several television programs each year over KNBC. The Artist Series in Thorne Hall presents vocal, instrumental, and dramatic artists in programs throughout the year.

A lectureship named in honor of Remsen Bird, former president of Occidental College, was established at the College in February 1948 by a gift to the endowment, to bring to the College and to Southern California one or more distinguished speakers each year. The general theme of the lectures is "The College and Society." The basic purpose underlying the Remsen Bird lectures is to maintain in the College a continuing sense of its relationship with society as a whole.

Glore Forgan, Wm. R. Staats Inc. annually supports a visiting lecturer in Economics and Finance, on the campus for a period of two or three days.

ADMISSION

Admission to Occidental College is highly selective. Each year the faculty seeks 430 men and women who have the energy to search for personal and intellectual values and the capacity for developing an awareness of the world about them. A balanced integration of personal and academic strengths is looked for in individual students, but the fundamental aim of the admission policy is to provide a diversified student body in economic, social, ethnic, religious, and geographical terms, as well as one which is reasonably well balanced in academic interests. The Faculty Committee on Admission views favorably the credentials of a student with demonstrated ability in the arts, ability as a leader, strong feelings about social issues, and other outstanding personal qualities.

The applicant's academic background, the recommendation of the secondary school, the support of teachers, and the results of College Board Scholastic Aptitude and Achievement Tests are carefully evaluated.

In judging academic qualifications for admission, the Faculty Committee on Admission is concerned primarily with the quality and depth of each student's preparation. Although no rigid pattern of subject matter is prescribed for entrance, a student who has prepared himself in four or five academic subjects each year throughout the last three years of secondary education will have an advantage. The following subjects are especially desirable as preparation for a liberal arts college program: English, foreign language, history, mathematics, and laboratory science. The emphasis in each field will vary with the student's interests and goals, of course, but a strong program in high school would include four years of English composition and literature, at least three years of a foreign language, three years of mathematics (four for students interested in science or engineering), two years or more of history, and one year each of biological and physical science (students interested in science or engineering should include both physics and chemistry). It is desirable to include advanced or honors courses in the high school program where these are available. Students whose records show significant irregularities in preparation are welcome to discuss them with an admission officer before filing a formal application.

Since the level of preparation varies among candidates and schools, there is no established grade average or class rank requirement for admission. However, candidates should present academic records considerably above the college recommendation level set by their schools.

ADMISSION PROCEDURE

All applicants should file the following credentials:

1. A formal application for admission, including a personal essay, a small photograph, and a nonrefundable application fee of \$20.00 by February 1. No separate residence application is required; all students must live in college residence halls during their first year at Occidental.

2. An official school record, and a recommendation by the secondary school principal, headmaster, or counselor by March 1. An applicant who has attended college for one or more years need not submit the secondary school recommendation; an official secondary school transcript will suffice. In addition, transfer applicants must submit *official transcripts* of all college courses completed and a statement of *courses in progress*.

3. The results of the College Board Scholastic Aptitude Test, taken by January of the last year in secondary school. March tests arrive after most of the entering class has been selected, but consideration *sometimes* is possible. Transfer students who have not taken the College Board Scholastic Aptitude Test and are unable to do so on one of the nationally scheduled dates may request special arrangements for testing at Occidental College.

4. Although not required, but strongly recommended, the results of the Achievement Tests of the College Entrance Examination Board in English composition and a modern foreign language. A third examination in either science or mathematics would be appropriate for students contemplating a major in either area.

5. Two references from the candidate's teachers by March 1. Transfer candidates with one or more years of college work should have both references submitted from the college they have attended, one of them from an appropriate administrative officer, i.e., dean, counselor, or adviser, and the other from a professor.

Although an interview is not required for admission, applicants are strongly encouraged to have a personal discussion with an admission officer if at all possible. The Admission Office is open from 9:00 a.m. to 5:00 p.m., Monday through Friday each week and from 9:00 a.m. to 12:00 noon on Saturdays, November 1 through March 1. Appointments should be arranged in advance by letter or telephone before March 1. Upon request, the Admission Office will supply a list of Alumni Admission Associates who are available to interview students outside the State of California.

Upon notification of acceptance, or not later than the Candidate's Reply Date, a commitment deposit of \$100.00 is required. This will be applied toward room rent for the spring term. This deposit is nonrefundable.

ADMISSION

EARLY DECISION PLAN

Prospective freshmen for whom Occidental is a primary interest may file for consideration under the Early Decision Plan. In addition to the standard credentials required of all applicants, including the College Board Scholastic Aptitude Test, an Early Decision candidate must submit a statement that Occidental is his primary choice of college. It is recommended that candidates submit the results of the March, May, or July Scholastic Aptitude Tests. If an applicant is a resident of a state in which a November administration of the Scholastic Aptitude Test is offered, the results of that examination may also be submitted for consideration under the Early Decision Plan.

Students may request appropriate materials for an Early Decision any time after completion of the junior year of secondary school. Applications must be submitted not later than November 15. Applicants for financial aid must also submit the Parents' Confidential Statement of the College Scholarship Service by November 15. Committee action on Early Decision applications will be announced in mid-December so that the candidate, if accepted, need not file applications at other colleges. Students accepted under the Early Decision Plan must submit within fifteen days a commitment deposit of \$100.00, which is nonrefundable.

Acceptance and financial aid under the Early Decision Plan are restricted to strong candidates. Those applicants not accepted initially will be reviewed again automatically, and their preference for Occidental will be given as much consideration as possible.

EARLY ADMISSION

Early admission is a program designed for superior students who have not yet finished high school but who have the necessary maturity to assume the responsibility of the independence of college life. While we do not encourage students to enter college before completing their secondary school programs, we do recognize that each year there are some exceptional students who have exhausted the academic opportunities in their high school, who possess those special qualities of social and academic maturity, stamina, motivation, flexibility, and resiliency, and who are, therefore, fully capable of pursuing a demanding college program. Early entrants must be strongly recommended by their secondary school principals, teachers, and counselors; their academic work should be closer to an A than a B average, and their Scholastic Aptitude Test results should be at least 600. Because maturity is an essential ingredient in the adjustment to college life, emphasis is placed upon recommendations and the interview. The normal application

procedures and admission requirements as previously outlined apply for early admission candidates with the exception that an admissions interview is required for early entrants.

COLLEGE ENTRANCE EXAMINATION BOARD

The Scholastic Aptitude Test (SAT), which is required of all applicants, and the Achievement Tests, which are recommended, are administered by the College Entrance Examination Board. Each applicant is responsible for applying directly to the Board for these examinations. The Board publishes a Bulletin of Information, which may be obtained without charge, containing application blanks, rules, fees, sample questions and other necessary information.

The Scholastic Aptitude Test and the Achievement Tests will be offered by the College Entrance Examination Board on five dates in 1969-70. In addition, a special administration of the Scholastic Aptitude Test will be offered in November in nine states. Application should be filed with the Board at least four weeks in advance of the date of the test for students in the United States, Canada and Mexico, and eight weeks in advance for students in Europe, Asia, Africa, Australia, Central and South America. When requesting application forms, candidates should state which examination date has been chosen. Examination dates are:

*Saturday, November 1, 1969

Saturday, March 7, 1970

*Saturday, December 6, 1969

Saturday, May 2, 1970

*Saturday, January 10, 1970

Saturday, July 11, 1970

Candidates should make application by mail to the College Entrance Examination Board. Inquiries, completed applications and fees should be addressed to P.O. Box 1025, Berkeley, California 94701, by students who wish to take the examinations in any of the following states or foreign areas: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Northwest Territory, Yukon Territory, Province of Alberta, Province of British Columbia, Province of Manitoba, Province of Saskatchewan, Republic of Mexico, Australia, the Pacific Islands, including Japan and Formosa. Candidates who wish to take the examinations in any state or foreign area not given above should write to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540.

The Board will report the results of the tests to the institutions indicated on the candidates' applications.

*Applicants who for some reason cannot arrange for one of the earlier tests should write to the Admission Office to discuss the circumstances.

ADMISSION

ADMISSION OF TRANSFER STUDENTS

Each year the College is able to accept a limited number of well-qualified students desiring to enter at the sophomore or junior level. A transfer student should present a minimum college record of B—, together with statements of honorable dismissal from the collegiate institutions attended. Grades in previous academic work, scores in aptitude tests and personal references are all considered in judging an applicant's preparation and promise. Transfers with advanced standing are accepted in each term, the number depending upon available space. A preliminary application and transcript are required to determine the advisability of filing for transfer. Formal transfer applications reaching the Office of Admission on or before April 1 will be processed and candidates notified by May 15. Any transfer applications completed after April 1 will be subject to rolling admission dependent upon openings available in classes and dormitories. Admission procedures are outlined on page 167.

In no case will advanced standing be granted in excess of twenty-six courses (ninety-three semester units). Credit for work at other institutions is provisional during the first term of attendance.

Occasionally, permission may be given to receive credit on examination for work equivalent to regular Occidental College courses, although not completed at a recognized collegiate institution. Formal application for such examinations and satisfactory evidence of the work completed must be presented to the Registrar.

Transfer students are expected to complete equivalents of the general degree requirements outlined on pages 19-21. A statement of recommended equivalents may be obtained from the Admission Office. As many of these requirements as possible should be fulfilled in the freshman and sophomore years in order to complete degree work in normal sequence. Provision may be made, however, to include deferred general requirements in course work taken at Occidental subsequent to transfer.

ADMISSION AS A SPECIAL STUDENT

It is sometimes possible for a mature adult to be admitted as a special student and to be so classified for one year. Upon satisfactory completion of a full year of work, a special student may apply for classification as a candidate for the degree of Bachelor of Arts. As such, he will be expected to meet in full all degree requirements.

A special student may not have been in attendance at another institution within two years of the date of his application. Special students are subject to all of the rules and regulations which apply to regular undergraduate students.

ADMISSION OF INTERNATIONAL STUDENTS

As part of the total program in international education at Occidental, the College admits each year a number of students from foreign countries. Preliminary applications for admission are available upon written request from the Admission Office. If after review of the preliminary application the Committee on Admission of International Students judges an applicant's chances of acceptance reasonable, final and formal application materials will be forwarded. This procedure is deemed necessary to save applicants and the College needless waste of time and expense.

Students from non-English speaking countries must present acceptable evidence of competence in English sufficient to permit them to follow Occidental College courses successfully. If it seems advisable, the College may require an applicant to pass an English aptitude test, or to take an intensive course in English for international students at an institution in the United States which offers such courses, prior to establishing residence at Occidental.

Students from other countries must also present evidence that sufficient funds will be available for their travel and for their academic and living expenses, either through authorization to convert the currency of their countries into dollars or from sources available in the United States. An international student must not depend upon earnings from employment in the United States for any significant portion of these expenses, particularly during the first two years of his stay here. Furthermore, he must have a *bona fide* sponsor in the United States who is willing and able to grant him financial and other aid as needed.

Insurance policies covering health, hospitalization and accident are required of all international students as a prerequisite to their registration.

There are certain funds at Occidental College which are used annually for financial assistance to qualified students from foreign countries. These funds are limited, and only in exceptional cases do the grants exceed the cost of tuition alone. An applicant for financial assistance should request a confidential statement from the Admission Office. All awards are based upon financial need evidenced therein.

FEES AND EXPENSES

Occidental College is an independent institution which receives no operating support from public funds. Each student is charged a tuition fee which covers about two-thirds of the cost of services given to him by the College. The balance of these costs is met by income from endowment and by gifts from trustees, parents, alumni and other friends who are interested in the type of education which this institution provides.

The expenses of students at Occidental College are shown in the schedules which appear in this section of the catalog. The College reserves the right to change fees, modify its services or change its programs should economic conditions or national emergency make it necessary to do so.

Basic college expenses for an undergraduate student not residing on campus are \$2,110 per year, and for a resident, \$3,310. Books and supplies, special fees and personal expenses will vary with the individual. The College estimates that they will be between \$200 and \$500 per year.

TUITION AND GENERAL FEES (PER TERM)

Tuition:

Two or more full courses ¹	\$684.00
One full course	250.00
Fractional course: one-sixth (See page 19)	45.00
Student Body Fee ^{2,3} (Required of all full-time undergraduates)....	13.00
Accident Insurance (Required of all full-time undergraduates)....	7.00
Application Fee (Required of all new students)	20.00
Summer Term (See Summer Term Bulletin)	
Residence Halls — Room and Board (Per Term).....	400.00
<i>A nonrefundable deposit of \$100.00 is required for reservation of a room. For Residence House Dues—see Special Fees, page 174.</i>	

¹Tuition is the charge for instruction and general services of the College, including privileges of the Library, Gymnasium, Swimming Pool, Health Center; admission to all athletic and forensic contests sponsored by the College; and graduation. The privilege of the Artist Series is extended to all full-time students, subject to established ticket procedures and a student capacity of approximately 60% of Thorne Hall at each event.

²This fee is collected by the College for the student body which carries on its operations as a department of the College. The annual budget must receive the approval of the President of the College. The funds are administered by the Executive Committee of the Associated Students. The net worth, which changes with the results of operations from year to year, is available for general college purposes under the direction of the Board of Trustees. The payment of the fee includes (1) subscription to the college paper and annual, (2) student body and class membership, and (3) dues for membership in Associated Women Students.

³Graduate students may pay the Student Body Fee if they wish the privileges it covers.

FEES AND EXPENSES

Tuition, room and board, student body and certain other fees are payable each term on or before the day of registration. Deferred payments may be arranged on the following basis:

One-third or more in cash at registration. Balance may be paid one-half on the first day of the first month following registration and one-half on the first day of the second month following registration.

Other arrangements, satisfactory to the Treasurer, may be made before registration, but all college charges must be paid by the completion of each term and prior to registration for the subsequent term. In the event that it is necessary to defer an unpaid balance beyond the term in which the charge was incurred, interest at 6% will be charged on the outstanding amount.

A service fee of \$1.00 is charged for each \$100 deferred. Scholarships and grants-in-aid given by the College may not be used in lieu of cash at registration.

SPECIAL FEES

Payable upon notice from Registrar's or Treasurer's Office.

Appointment Service, Department of Education:

For students recommended by Occidental Collegeno charge

Renewal fee for students recommended by

Occidental College\$ 15.00

Fee for students from other institutions 50.00

Auditor's Fee (for nonregistered students).

Lecture Course 125.00

Laboratory and Creative Art Courses (per course) 250.00

Change in Schedule 3.00

Course Exemption by Examination 3.00

Credit by Examination (based on individual study) per course..... 175.00

Duplicate Receipt for Student Bill 1.00

Education Department—Student Teaching (See course offerings.

These fees are nonrefundable).

Internship fee for internship year..... 150.00

Examinations Given at an Irregular Time 5.00

Mathematics Computer Use Fee..... 3.00

Miller Analogies Test—group test 5.00

individual test 10.00

Music, Applied—Individual Instruction 75.00

Practice Fees (See Page 119)

Registration, late, per day:

Registrar's Office—IBM packet, including Study List..... 5.00

Treasurer's Office 5.00

FEES AND EXPENSES

Residence House Dues	\$ 3.00
Speech and Drama—Cinema Laboratory	10.00
Teacher's Credential Fee, per credential	20.00
Thesis for M.A. Degree, Binding Fee, per copy	10.00
Transcript of Credits, one copy free; thereafter, per copy ¹	1.00
One week's time required for processing.	

REFUNDS

Since faculty engagements and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to drop a course or withdraw:

Dropping a course—No refund will be due if a student is enrolled for three courses and drops one course at the beginning of a term. Students who register at the beginning of the term for two full courses only and elect to drop one course within the approved five-week period will be entitled to the following tuition refund:

At the end of the first week of classes—\$390.

At the end of the fifth week of classes—\$195.

Withdrawal within ten days after registration—full tuition less 20%.

Withdrawal after ten days and within the fifth week after registration—one-half of tuition.

Withdrawal after five weeks—no refund.

In the case of music fees, a prorated balance, less \$3.00 will be refunded. A refund of other fees will be made on the same basis as that of tuition with the exception of residence charges which are detailed below.

No refund except for board will be made to a student who is dismissed or suspended. Refund for board will not be made for an absence of one week or less nor for the first week of a prolonged absence. Refund on room will be made only if all residence halls are fully occupied for all three terms.

All refunds must be requested by letter addressed to the Treasurer with full explanation, date of receipt of which determines the refund period.

¹Transcript of credits will not be given unless outstanding obligations to the College have been paid in full, or satisfactory arrangements made therefor.

FINANCIAL AID TO STUDENTS

The College is able to provide varying amounts of financial assistance to worthy and qualified students in the form of grants, scholarships, loans and jobs. The total number and amount of awards made each year are based upon resources available from scholarship endowment, annual gifts restricted to scholarship awards, and the general funds of the College. The funds are the consequence of the desire of the College and its friends to recognize merit and to insure a balanced student body.

In all awards, except for those specifically indicated, financial need will be taken into consideration. Other bases for the selection of recipients of financial assistance are scholastic excellence, aptitude test scores, and the applicant's general record of activities and citizenship.

Occidental College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service, designating Occidental College as one of the recipients, by March 1. The PCS form may be obtained from a secondary school or from the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540 or P.O. Box 1025, Berkeley, California 94701.

The word "package" has now become of standard usage in scholarship programs. This word implies the use of grants or scholarships, loans and/or jobs to meet the need of a given student. Increasingly the College is employing this approach to student aid. The use of loans and campus jobs enables the Committee on Financial Aid to Students to spread available scholarship money over a larger number of cases and thus assist a greater number of deserving students.

Statements in this section apply only to undergraduate students. Information concerning financial assistance at the graduate level may be obtained from the Graduate Office.

Job opportunities are available, through the office of the Director of Career Counseling and Placement.

SCHOLARSHIP GRANTS FOR NEW STUDENTS: Scholarship Grants are awarded in proportion to the degree of financial need and are made for one year only.

FINANCIAL AID TO STUDENTS

Since funds are limited, Scholarship Grants are awarded on a selective basis and thus previous records and apparent promise of candidates usually are factors which determine the awards. In all cases a Grant will be supplemented by a loan (long term). In general, Scholarship Grants will be renewed if the recipient maintains a satisfactory record and financial need continues. In the junior and senior years a greater proportion of the award will be in terms of a long-term loan. The amount of the Grant may range from \$100 to \$3,500, while the amount of the loan will vary from \$100 to \$750.

ALUMNI SCHOLARSHIPS: In addition to Scholarship Grants the College awards a limited number of Alumni Scholarships to freshmen. Financial need is the controlling factor in the amount of money awarded, but outstanding scholarship and evidence of superior aptitude are primary criteria in determining the recipients. These scholarships are four-year awards and carry a financial stipend of from \$500 to \$3,500 per year. In order to retain an Alumni Scholarship, it is necessary to maintain approximately a "B" record.

CALIFORNIA STATE SCHOLARSHIPS: All candidates who are residents of California are expected to apply for a California State Scholarship through the California State Scholarship and Loan Commission. The deadline for filing application occurs in mid-December. Application forms and additional information are available in the counseling office in secondary schools throughout the state.

SPECIAL SCHOLARSHIPS: The American Chemical Society, the Southern California Association of Physics Teachers, the California Scholarship Federation, Alpha Gamma Sigma, the California Congress of Parents and Teachers, and the United Presbyterian Church, U.S.A., have special scholarships open to properly qualified applicants. Information concerning these special scholarships may be obtained through either the organization named or the Director of Financial Aid to Students.

SCHOLARSHIP GRANTS FOR STUDENTS IN COURSE: Sophomores, juniors, and seniors who establish financial need and who have attained satisfactory academic and citizenship records are eligible to apply for consideration for Scholarship Grants. Loans and campus employment will be included as a part of the "package" in most instances with the amount of the loan increasing as the student approaches graduation.

EDUCATIONAL OPPORTUNITY GRANTS: As provided in Section 403 of the Higher Education Act of 1965, Educational Opportunity Grants are available to students of "exceptional financial need as measured on an absolute scale

FINANCIAL AID TO STUDENTS

relative to the amount the parents of the student can contribute" to college expenses.

LOAN FUNDS: Through the generosity of many friends of the College, student loan funds totaling approximately \$525,951 are available from which loans are made to students at low interest rates. These loans are to be repaid within ten years of graduation and are limited to students of acceptable scholastic standing.

THE NATIONAL DEFENSE ACT LOAN FUNDS are a part of the College loan funds and are available on application to the Committee on Financial Aid to Students in the same manner as other funds. As specified in the Federal legislation establishing these loan funds, priority is given to persons going into education and to those majoring in the sciences and foreign languages.

GOVERNMENT GUARANTEED LOANS are made available through the banks of the various states in accordance with the provisions of the Federal Higher Education Act of 1965. These loans range in amount from \$300 to \$1,000 and are limited to residents of a given state who are full-time students and whose family's adjusted income is less than \$15,000 per year. Application forms may be obtained from the Director of Financial Aid. Applicants living in states other than California should confer with the high school counselor regarding the availability of Government Guaranteed Loans in their states.

INTERNATIONAL STUDENT SCHOLARSHIPS: Occidental College has designated certain funds to be used annually for financial assistance of qualified students from foreign countries accepted for admission. Details are available from the Dean of Students.

ACADEMIC POLICIES

The academic year at Occidental College consists of three eleven-week terms, each including one week of final examination. A student may register each term for a maximum of three courses, plus one or two fractional courses. See page 19 concerning fractional courses. Except in one term of the senior year, permission to register for less than three courses in any term will be granted only in exceptional cases through formal petition presented to the Registrar and approved by appropriate officers of the College.

REGISTRATION

During the spring term, current students who wish to return for the following year are preregistered for the entire academic year (three terms). Xerox copies of individual records through the preceding term are issued to them at that time. Students previously in attendance at Occidental who are not preregistered complete all details of registration on the official registration day at the beginning of the term. Freshmen are preregistered by mail during the summer. New students with advanced standing (sophomores or higher) are not preregistered but receive on registration day statements evaluating their transferred credit in terms of Occidental's degree requirements and then complete their programs.

A registration day is designated at the beginning of each term for final registration by returning students and new students. Upon completion of procedures as outlined in registration materials the student's final registration is approved by the Treasurer and the Registrar. A fee is charged for failure to complete preregistration and final registration on the dates announced each year (see page 173). Any student who fails to complete his registration and secure the final approval of the Registrar within the first week of the term is not properly enrolled and may be denied all credit for the term's work.

STUDY LISTS

Each student is assigned to an academic adviser on the basis of his expressed interests. All courses for which the student wishes to register for credit must be listed on his official registration and his program must be approved in writing by his academic adviser. No student will be allowed to attend classes

or to participate in college activities until he has filed with the Registrar an approved study-list card.

Students interested in obtaining a teacher's credential must consult the chairman of the Department of Education before beginning the work of the junior year.

Preregistered students are given an opportunity on the official registration day at the beginning of each term to make changes in their programs without fee before presenting them for final approval. After registration day, official changes in study lists may be made only through official drop/add cards approved by the student's academic adviser, by the instructors whose courses are involved, and by the Registrar. One week is the limit for adding courses. A fee of three dollars is charged for each program change. This fee may be waived by the Registrar for new students in their first term at Occidental. The fee will be waived also for changes initiated by the College. A grade of Failure is recorded for any course dropped after the fifth week of classes unless exception is approved by the Dean of the Faculty on the basis of illness or other unavoidable cause.

AUDITORS

Any regularly registered full-time student may audit a course without fee, subject to permission of the instructor. Students not registered for credit may attend courses as auditors subject to formal permission through forms obtainable at the Office of the Registrar and payment of auditors' fees as indicated on page 173. An auditor may not participate actively in course work or take final examinations and therefore does not receive any credit. No entry is made on the student's permanent record concerning audited courses.

CLASS ATTENDANCE

A student, unless excused by the personnel deans for a special reason, is expected to attend all scheduled classes. Unexcused absences of more than a full week will be reported to the Dean of Students.

EXAMINATIONS

Final examinations are held in each course at the close of each term and are required of all students. At the discretion of the major department this requirement may be waived in major department courses in the term in which the student takes his comprehensive examination. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may impose. A fee of five dollars is charged for an examination given at an irregular time or to make up a deficiency.

ACADEMIC POLICIES

GRADES

The scholastic standing of both undergraduate and graduate students is indicated by the following grades: A, excellent; B, good; C, fair; D, barely passing; F, failure. A grade of Incomplete (inc.) may be used for an undergraduate and Deferred (def.) for a graduate under conditions as outlined below. In case of formal withdrawal before the end of a term, a grade of W is recorded to indicate that work in a course at the time of withdrawal was passing; WF indicates that the work was failing.

An Incomplete (inc.) indicates that although the work completed is of passing grade, some portion of the course remains unfinished because of illness or for some other reason over which the student has no control. This grade may be given by the instructor, subject to approval by the Dean of the Faculty, and may be removed in such manner as the instructor indicates. If not removed within one calendar year of the date on which it was incurred, an Incomplete becomes a Failure.

Subject to approval by the Chairman of the Graduate Committee, a graduate student's grade may be Deferred (def.) by the instructor who specifies the time limit within which the work of the course is to be completed, this limit not to exceed one year except in the case of M.A. Thesis or Ph.D. Dissertation. If not removed within the specified time limit, a Deferred grade becomes a Failure.

Instructors file with their grade reports at the end of each term written statements of reasons for assigning Incompletes, Deferred grades and Failures. In the case of an Incomplete or a Deferred grade, the statement indicates the work necessary to attain a final grade. A copy of this statement is given to the student with his grade report.

See page 39 for provision courses taken on a Pass/Fail basis.

SCHOLARSHIP REQUIREMENTS

A C average in all work undertaken at Occidental is required for graduation.

At the close of each academic year the status of every student whose total record falls below C average is reviewed by the Committee on Academic Standing and Student Conduct in conference with the student's academic adviser. Students may be placed on probation or suspended for low grades at the end of any term, if in the judgment of the Committee on Academic Standing and Student Conduct their cumulative record indicates inability to meet graduation requirements.

A student who has been suspended shall be ineligible to reregister at Occidental College within one full calendar year after the date of his suspension. No credit will be allowed toward a degree from Occidental for work done elsewhere while under suspension.

To apply for reinstatement after his year of suspension, a student shall file with the Committee on Academic Standing and Student Conduct a written petition indicating his activities since the date of his suspension, his proposed program for the term after reinstatement, and his proposed plan for removing his academic deficiencies. This petition shall be filed not later than thirty days prior to the opening of the term in which the student wishes to reregister. An individual written agreement concerning terms of readmission shall be made between each reinstated student and the Committee on Academic Standing and Student Conduct.

Standards of scholarship in major departments are stated under the rules governing distribution of work. (See pages 21-22.)

Reports on students in scholastic difficulty are filed at midterm. Only the final grades at the end of each term are permanently recorded. All actions by the Committee on Academic Standing and Student Conduct also become a part of the student's permanent record.

CONVOCATIONS

College convocations are normally held five times a term and feature both faculty and visiting speakers from a variety of fields. These convocations help provide a sense of academic community and are regarded as an integral part of college life and of the college curriculum.

LEAVE OF ABSENCE AND HONORABLE DISMISSAL

A student who wishes to withdraw from college may be granted a leave of absence or honorable dismissal provided signatures on the official withdrawal slip furnished by the Registrar indicate that he is in good standing in all of his courses and has met all of his financial obligations. If a student is not doing passing work in any course at the time of withdrawal, a Failure is entered on his permanent record for that course. Anyone who discontinues his work without official permission receives Failures for all courses in which he was registered at the time of withdrawing, loses his privileges of reregistration and forfeits his right to honorable dismissal. A student who wishes to return to Occidental after an absence must file an application for readmission through the Office of the Registrar.

CLASSIFICATION OF STUDENTS

The class in which a student is to be ranked is determined as follows: **FRESHMAN:** The meeting in full of all entrance requirements as outlined on pages 166-169. **SOPHOMORE:** The satisfactory completion of eight courses, or equivalent. **JUNIOR:** The satisfactory completion of seventeen courses, or equivalent. **SENIOR:** The satisfactory completion of twenty-six courses, or equivalent.

ACADEMIC POLICIES

SUMMER STUDY AT OTHER INSTITUTIONS

Work taken elsewhere during the summer that is not available in Occidental's Summer Term may be accepted for credit toward a degree from Occidental College, subject to the advance approval of the chairman of the department in which the course would be identified, the student's adviser, and the Registrar. It is also possible through petitions to the Registrar to have summer study elsewhere accepted without credit to fulfill prerequisites or general college requirements.

GENERAL POLICIES

STUDENT CONDUCT

Occidental College expects that its students, both within and without the College, will impose on themselves and will adhere to high standards of morality, honor, and good citizenship; that they will conduct themselves in a responsible manner, which reflects credit on themselves and the College; and will abide by the regulations of the College. Occidental regards continued attendance at the College as a privilege. If, in the judgment of the administrative officers of the College, a student's conduct does not conform to the foregoing criteria, the College, through these officers, may, after following such procedures as they consider appropriate, with due regard to the rights of the individual, impose such penalties as they may determine the circumstances justify, including suspension or dismissal. The College reserves the right to withhold its degree or its diploma from any student who has outstanding financial obligations, either to the College, to student organizations, or to others in the community.

COUNSELING

Primary responsibility for counseling is concentrated in the office of the Dean of Students, in cooperation with the Associate Deans and Director of Counseling. Resources available to them in assisting students in their adjustment to various phases of college life include the services of the health staff with two College Physicians, the members of the psychological counseling staff, the College Chaplain, and the several offices and committees concerned with students interests. On recommendation, students may be referred to the college consulting psychiatrist.

Each member of the freshman class is assigned to a Faculty Associate, a specific faculty member, who assists the freshman throughout his first college year. After the freshman year the student is advised by a member of the faculty in the academic department of his choice. Students who have not chosen a major field are advised by the Dean of Students or the Associate Deans.

The College maintains a Counseling and Placement Center for the benefit of students. Counseling and testing functions are designed to assist students in dealing with educational, vocational, and related personal-social problems, and to guide them in their formation of career plans. No fee is charged to presently enrolled students for the counseling services available under

GENERAL POLICIES

normal circumstances. A fee of \$3.00 is charged to students when an extensive test or test battery is given or when special expenses are incurred in scoring or administration. The service is available to alumni at a fixed fee of \$15.00 and to the general public at a fee dependent upon the quantity of testing and counseling requested.

Placement services are designed to provide seniors and alumni with information relating to available jobs and with opportunity to make contacts with industrial and governmental representatives both on and off campus. In addition, the Placement Center assists students in securing part-time and summer employment.

A specialized service is provided for those who wish to obtain positions in the teaching profession.

RESIDENCE

Life in a college residence is an integral part of the general purpose of education at Occidental College. Each individual student is expected to assume his or her share of responsibility for the welfare of the group, and the group aims at all times to be sensitive to the needs and interests of the individual.

Occidental is a residential college which supports the ideal that to the greatest extent possible the academic and social sides of college life should be integrated to produce an environment in which living and learning are total experiences, where the intellectual vitality of the institution transcends the boundaries of the classroom and extends to every dormitory on the campus. Residence arrangements are guided by student preferences with a view to creating a residence style which best contributes to their personal and intellectual development.

Accommodations in the residence halls include both single and double rooms, some of which have sleeping porches. All meals are served in the College Union Dining Room.

All freshman men are required to live in the college residence halls. Sophomores who do not live at home must live in college residence halls or fraternity houses. Junior and senior men, if not living at home, may live in residence halls, fraternity houses, or off-campus accommodation.

All freshman women are required to live in the college residence halls. Sophomore and junior women, and senior women under the age of 21, who are not living with their parents or legal guardians, must live in the college residence halls or in sorority houses. Senior women who will be 21 years of age by September 1 have the privilege of living off campus during the year. Seniors electing to make this kind of housing arrangement will be responsible for filing letters of approval from their parents in the Office of the Associate

GENERAL POLICIES

Dean by June 1, 1969. Freshman women may not live in sorority houses.

Transfer students are required to live in campus residence halls during their first year at the College.

Rooms are rented for the entire academic year (three consecutive terms). A deposit of \$100.00 is required for the reservation of a room and is applied toward rental for the spring term. This deposit is nonrefundable.

New students, through the application for admission, indicate their intent to live in college residence facilities. Students previously matriculated make application for residence through the offices of the Associate Deans.

The halls and dining rooms will be closed between terms. During periods when the halls are closed, provision for supervised residence at extra cost may be made for those students who have adequate reason for remaining on the campus. The services of the Health Center and the health staff are not available when the residence halls are closed.

The College reserves the right to entertain delegates to association meetings, conventions and other related groups in the residence halls during vacation periods. Resident students will be notified in advance of such contemplated occasions and assurance given to them that every reasonable precaution will be used by the College in the safeguarding of their personal property during such occupancy.

The College reserves the right to enter the rooms of students living in the dormitories for such purposes as it deems necessary.

HEALTH SERVICE

The College makes an effort to safeguard the health of its students, recognizing that adequate health habits and education are an essential part of a college program and that good health is necessary if full value is to be attained from curricular activities.

Emmons Memorial serves as the Health Center for the campus. Here students may receive advice and treatment for minor ailments during daily office hours. The building is equipped as a small modern infirmary, and medical care is supervised by the Director of Health Service and a second attending physician, both of whom are on part-time appointments. A registered nurse is on duty at all times while the College is in session. The health services and facilities of the College are available to students within the general charge for tuition except for limitations outlined under regulations available at the Health Center.

Students temporarily unable to attend classes, in the judgment of the medical staff, are cared for as bed patients for a period of three days per term within the tuition charge. Nonresident students will be charged \$2.55 per day for meals during this three-day period. Service for additional days is

GENERAL POLICIES

charged at the rate of \$6.00 per day, with students in residence receiving credit for their meal charges.

Cooperation from both parents and students is needed and expected in carrying through the college program of health service in order that this program may be of value to all. No student will be permitted to register unless he complies with all medical requirements for admission.

A medical history and physician's statement, on forms issued by the College, are required as a part of the registration credentials of all students. These must include evidence of smallpox vaccination within the last three years, active immunization for tetanus within the last three years, a minimum of three injections of Salk poliomyelitis vaccine or a full series (3) of Sabin vaccine, and a chest x-ray within the current year or a negative skin test for tuberculosis.

Students transferring to Occidental from other collegiate institutions are permitted to submit copies of medical examinations which were used for admission to the schools of primary enrollment provided the records are considered adequate by the Health Center staff. If such records are not available or if the examinations are more than four years old, the requirements outlined in the above paragraph concerning medical history and physician's statement must be complied with.

Students previously registered at Occidental College who return after an absence of three years or less will not be required to have medical examinations at the time of readmission unless special health problems have developed. Examination is not required of students returning after military service unless medical problems have arisen during such service. A statement from the student regarding his medical history since leaving the College must be filed by all applicants for readmission who are not required to have a medical examination. Students who withdrew for health reasons are required to furnish as a part of their applications for readmission a physician's statement regarding diagnosis, treatment and medical fitness to return to school.

INSURANCE

The College offers to students accident insurance which supplements the College Health Service described in this bulletin. This insurance is compulsory for full-time undergraduates and for all international students. The insurance is underwritten by a reputable insurance company at a minimum rate. Local and nationwide claim service is provided and the student is protected twenty-four hours per day, on or off campus, during the three terms of the college year.

In addition, on an optional basis, and for an additional fee, the accident

GENERAL POLICIES

coverage may be carried for the summer months, and sickness medical coverage may be carried for the full calendar year on a voluntary basis except that this additional coverage is required of all international students unless waived by the Dean of Students. Material descriptive of the insurance available is mailed to the home address of all students prior to the opening of the fall term.

ALCOHOL AND DRUGS

The use or possession of alcoholic beverages or illegal drugs on the campus is prohibited.

AUTOMOBILES

Students are permitted to have automobiles but must register them with the office of Special Services and operate them in compliance with safety regulations formulated by the Student Life Committee, which are available in the office of Special Services. A subcommittee on motor vehicle safety serves as a board of review and appeal with regard to traffic violations, and reserves the right to withdraw motor vehicle privileges from any student at any time for cause.

LEGAL RESPONSIBILITY OF THE COLLEGE

The College endeavors to safeguard students in the use of physical facilities, laboratories, athletic fields and gymnasium, and to this end the departments have established regulations concerning the use of such facilities. It is clearly understood that students who use these facilities do so entirely at their own risk. Emergency first aid treatment is available, but the College has no legal responsibility for injuries or other damages suffered by students on or off the campus, or in travel to and from such activities or for any expenses in connection therewith.

ENDOWED AND OTHER BENEFACTIONS

CHAIRS

NORMAN BRIDGE PROFESSORSHIP IN HISPANIC AMERICAN HISTORY

Established in 1924 in honor of Dr. Norman Bridge, Los Angeles civic leader, by gifts from Mr. and Mrs. Edward L. Doheny, Herbert G. Wylie, and Dr. Norman Bridge.

STUART CHEVALIER PROFESSORSHIP IN DIPLOMACY AND WORLD AFFAIRS

Established in 1957 by Mrs. Stuart Chevalier in memory of her late husband, an Occidental trustee, a distinguished attorney and author, and student of international affairs.

ROBERT GLASS CLELAND PROFESSORSHIP IN AMERICAN HISTORY

Established in 1965 in honor of the late Dr. Robert G. Cleland, distinguished historian of California and the West, successively student, professor, administrator, trustee, and onetime chairman of the Board of Trustees of Occidental College; identified with Occidental College for nearly sixty years.

ARTHUR G. COONS PROFESSORSHIP IN THE HISTORY OF IDEAS

Established by the class of 1965, supplemented by the gifts of others, in honor of the College's President from 1946 to 1965 upon his retirement.

CECIL H. AND LOUISE GAMBLE PROFESSORSHIP IN AMERICAN INSTITUTIONS

Established in 1965 in honor of Cecil H. Gamble, former trustee of Occidental College, and Mrs. Gamble.

DAVID B. AND MARY H. GAMBLE PROFESSORSHIP IN RELIGION

Established in 1965 in honor of David B. Gamble, churchman, civic leader, and former president of the Occidental Board of Trustees, and Mrs. Gamble, first woman trustee of Occidental.

RICHARD W. MILLAR PROFESSORSHIP IN ECONOMICS AND FINANCE

Established in 1965 in honor of Richard W. Millar, alumnus, trustee, and executive committee chairman, William R. Staats & Co., Inc. (now chairman of the finance committee, Glore Forgan, Wm. R. Staats Inc.).

JAMES G. WARREN PROFESSORSHIP IN MUSIC

Established in 1943 by the family and friends of James G. Warren, long identified with music in Los Angeles.

ENDOWED AND OTHER BENEFACTIONS

LECTURESHIPS

REMSEN BIRD LECTURESHIP

Established in 1948 in honor of the College's President from 1921 to 1946, by a gift to endowment for the purpose of bringing to the community one or more distinguished speakers each year under the general theme of "The College and Society."

GLORE FORGAN, WM. R. STAATS INC. LECTURESHIP

Established in 1954 by annual gifts to support a visiting lecturer in economics and finance on the campus for a period of two or three days each year.

CHAPEL ENDOWMENT

JOHN LINDSLEY FUND, \$25,000 established in 1968 in memory of President Arthur G. Coons, the income to be used for support of religious activities and the Chapel program.

ENDOWED SCHOLARSHIPS

TRACY A. ABBOT MEMORIAL, \$90,000, a bequest in 1969.

ALPHA SORORITY, \$22,549, the income from which is awarded annually to one or more junior or senior women.

ANONYMOUS AND UNRESTRICTED, \$749,481.

CAPTAIN HERNALDO R. AVILA MEMORIAL, \$15,003, the income to be used to assist worthy men students.

EDWIN E. BEEBE, \$3,420, established in 1951 by the family and friends of Edwin E. Beebe, '31, for one or more students of high character and good sportsmanship interested in physical education as a career.

BETA PHI DELTA, \$2,171, a gift from the Beta Phi Delta Alumnae, established in 1965, the income from which is to be available annually to assist one or more junior or senior women.

JOHN AND ANNIE E. K. BIDWELL, \$37,908, a fund administered by the Board of Christian Education of the United Presbyterian Church in the U.S.A. Gift of John Bidwell, first man to lead an overland emigrant train to California in 1841. Died, Chico, California, in 1900.

HELEN BIRD, \$35,000, established in 1960 by the Board of Trustees, the income annually to be awarded to one or more outstanding students in music of high scholarship and with ability and promise in some aspect of music as a performing art.

REMSEN D. BIRD, \$11,125, established by an anonymous alumnus and trustee.

ROBERT G. AND AMANDA J. BLEE, \$2,010, a gift in 1919 by Mr. and Mrs. Blee, pioneers of Santa Ana.

ENDOWED AND OTHER BENEFACTIONS

LOUISE AND MARION BONSAK, \$10,000, a gift in 1934 of Mrs. Louise Bonsack of Pasadena in the name of herself and daughter.

DR. EDWIN FOREST BOYD, \$355, a gift in 1924.

ANNA LILLIAN BRADY MEMORIAL, \$4,000, established in 1962.

THEODORE S. AND EDITH NEWELL BROWN, \$57,150, established in 1957 by Mr. and Mrs. Theodore S. Brown.

MARY CAROLINE BUCKLEY MEMORIAL, \$20,000, a bequest in 1965, income to be used for scholarships.

ARTHUR W. AND ESTELLE MCCLUNG BUELL MEMORIAL, \$9,233, established in 1960 by the family and friends of Dr. Arthur W. Buell, '04, and Mrs. Buell, '05. Dr. Buell was a trustee of Occidental College from 1915 to 1960. Interest from this fund is to be awarded annually to one or more worthy junior or senior pre-medical students on the basis of scholastic achievement and need.

ESTHER M. BURROWES, \$5,150, the income to be used to assist a worthy student in preparation for theological studies.

DEAN THOMAS GREGORY BURT, \$12,734, established by the Board of Trustees in recognition of his service as Dean of the College from 1909 to 1928. He administered the scholarship and student aid program of the College.

DR. GEORGE C. AND MARY OLIVIA BUTTERFIELD, \$1,000, a gift in 1968 by Mrs. Dorothy Schenck in memory of her parents.

EDNA VAN WART CASTERA, \$100,000, a bequest in 1968, the income to be used for scholarships for one or more women to cover as far as possible their Occidental College expenses.

MARY S. CASWELL, \$1,034,241, the income to be used to assist women to complete their high school education and, when considered advisable, to further their business, collegiate or professional careers in education.

ANNA B. CLARK, \$1,500, a bequest in 1935.

MARY ANDREWS CLARK AND MARY MARGARET MILLER MEMORIAL, \$1,900, gift of Mrs. Elizabeth Abascal, Mr. and Mrs. J. M. Newell, and Anna B. Clark of Los Angeles in 1928.

THE CLASS OF 1915, \$30,651, the income from which goes to a "superior young person with an exceptionally high degree of scholastic attainment and who possesses qualifications for responsible and dedicated leadership."

HORACE CLELAND, \$1,100, established by the Alumni Association in memory of T. Horace Cleland, '03, for the best qualified upperclassman on the basis of need, merit and scholarship. Mr. Cleland was the son of Robert W. and Sallie Glass Cleland and elder brother of Dr. Robert Glass Cleland, '07.

LOUISE COOK, \$1,524, established in memory of Mrs. Laurence R. Cook by her husband and friends to assist students in the field of music.

ARTHUR G. COONS, \$11,566, established by an anonymous alumnus and trustee.

EDNA PALMER COONS, \$41,572, established in 1965 by a gift of \$10,040 from the Occidental College Women's Club, \$30,000 by the Board of Trustees, and gifts of others.

ENDOWED AND OTHER BENEFACTIONS

MATTHEW W. CORBETT, \$104,889, a bequest in 1964.

PHILIP R. CORRIN, \$15,864, established in 1965 by family and friends.

O. G. CRAWFORD, a bequest in 1933 by Mr. Crawford of Colton, still subject to annuity payments and then available for scholarships.

DR. ESTELLE A. C. CROSS, \$227,266, established by bequest of Dr. Cross in 1967 in memory of Frances S. Cross and William S. Cross.

ALBERT B. AND FLORENCE O. CUTTER, \$20,000, a bequest in 1930, the income to be divided equally between men and women students and preferably to students from Riverside, home of the donors.

LILLIAN PASCAL DAY, \$77,786, the income from the fund to be used as scholarships and loans to needy worthy American widows.

JEAN CAMPBELL DEAN, \$5,000, a bequest in 1961.

DELTA SORORITY, \$17,262, the annual income from which is available for (1) the Delta Junior Achievement Award of \$100, and (2) the granting of scholarships to deserving Occidental women, preferably Deltas.

FRANCIS AND ADA C. DIMMICK, \$1,000, a gift in the Endowment Campaign of 1906.

ECONOMICS DEPARTMENT, \$19,050, established in 1947 by an anonymous Los Angeles friend, the income to be used for students nominated by the department.

DAVID EMBERTSON MEMORIAL, \$692, established in 1961 by Mr. and Mrs. D. A. Embertson and friends in memory of their son, Class of 1960.

ENDOWED, \$12,587, collected by the Classes of '16, '20, '25, '31, '40, and '68, the income from which is added to general scholarship funds.

THE DAVID R. FARIES INTERNATIONAL, \$45,952, established by Mrs. David R. Faries in 1958, the income from which annually shall be awarded to a student or students who shall be either (a) a foreign student majoring in any field of study, or (b) a student majoring in international relations, diplomacy and world affairs.

FIFTY-YEAR, \$3,531.

MISS R. M. FILES, \$1,000, a gift in the endowment campaign of 1906.

FOUNDATIONS INCORPORATED, \$32,608.

HOLLY FULTON, \$1,164, established in 1960.

EMILIA B. GILLESPIE, \$95,590, established in 1960.

THE ROBERT E. GROSS-LOCKHEED AIRCRAFT CORPORATION, \$25,000, the income to be used for scholarships and fellowships for students who intend to major in scientific, engineering, economic or other fields applicable to the aerospace, electronic, marine, manufacturing or construction industries.

GEORGE D. HALL MEMORIAL, \$13,781, established by Mrs. George D. Hall in 1963.

MARGARET JANE HAMILTON MEMORIAL, \$10,000, the income from which is to be used to assist a junior or senior of promising ability and sincerity of purpose who has chosen a premedical or prenursing course of study.

RAPHAEL AND NORMAN B. HERMAN, \$25,000, a bequest of Raphael Herman of Los Angeles in 1947 as a memorial in his own and his brother's names.

ENDOWED AND OTHER BENEFACTIONS

JOHN P. HERRICK MEMORIAL, \$29,845, the income from which is to be used for students of high ability, good character and financial need with preference to a student or students who are in the field of economics or geology.

MARTIN HOOVER, \$5,000, a gift in 1934 of Kate C. Hoover of Los Angeles in honor of her husband.

JOHN JAY HOPKINS, \$50,000, established in 1958 by gifts from his estate and from the John Jay Hopkins Foundation, in memory of Mr. Hopkins, x' 15, with a preference for students majoring in mathematics or any one of the physical sciences.

OSCAR R. HOWARD, \$25,000, established by Mrs. Howard in 1953 to aid men and women of promise who without financial help could not complete their college course.

DAVID TRAVIS HUYCKE MEMORIAL, \$25,000, established by his parents and relatives in 1949 as a memorial to their son, a member of the class of 1948, who lost his life in an airplane accident in Alaska while on duty with the Naval Air Corps, to which was added in 1956 a gift from the estate of his maternal grandparents, the late Mr. and Mrs. Cree T. Work of Texas.

CORSON W. IDE, \$17,520, established in 1962.

JAMES IRVINE, \$85,000, gifts in 1956, 1957, and 1963 from the James Irvine Foundation, the income from which will be used to assist men and women students in the payment of college expenses. The benefits of this fund are limited to students residing in the State of California, with preference given to those residing in Orange County.

JANOFSKY-NIELSON MEMORIAL, \$12,215, established in 1961 in memory of Mr. and Mrs. E. Janofsky and Mr. and Mrs. H. T. Nielson.

FRED M. JOHNSON, \$900, with preference to an athlete.

MARTIN LUTHER KING, JR., \$3,710, established in 1968 in memory of Dr. King as an American citizen, honoring him for his leadership in the cause of justice and equality for all men, the income to be awarded annually to one or more students who have contributed significantly to better understanding among members of different races on the campus and in the community.

ERNESTINE A. KINNEY (U.S. Steel Foundation), \$40,000, a fellowship for post-graduate work in preparation for public school teaching.

RICHARD P. AND VIRGINIA P. KRATZ, \$5,500, to assist students majoring in the physical or natural sciences.

CHARLES F. LINDSLEY SCHOLARSHIP IN SPEECH, \$26,255, established in 1957 by a gift from a friend to the College which is being added to by others.

JAMES N. LOCKE, \$753, a bequest in 1945, by Mr. Locke of Coachella, California.

RAYMOND G. AND MARGO R. MCKELVEY, IN PUBLIC AFFAIRS, \$12,000, a fellowship established in 1968 by a gift from Mrs. Margaret Wilson Argo, the income to be used to assist a political science major in carrying through a project in public affairs approved by the department.

MACKENZIE, \$58,945, preference being given to those preparing for medicine.

FRANK N. MACPHERSON, \$12,528, a bequest placed in trust and made available in 1950, by Mr. MacPherson of Pasadena and formerly of Detroit.

ENDOWED AND OTHER BENEFACTIONS

EMILIE C. AND ALBERT L. MEYER, \$14,266, a bequest in 1949 by Emilie C. Meyer for a student to be chosen in cooperation with the Westlake Guild of Immanuel Presbyterian Church of Los Angeles.

RICHARD W. MILLAR, \$16,581, the income from which shall be used annually to provide approximately a half-tuition scholarship grant to a senior who has achieved a satisfactory record in scholarship but whose campus citizenship and personal character and promise are not only worthy but outstanding.

ANNE MUMFORD, \$10,000, established by the Board of Trustees in recognition of service as a member of that body 1930-1964 and as Executive Secretary of the John Randolph Haynes and Dora Haynes Foundation 1931-1952.

ANNA CLUTE NEWCOMB, IN DIPLOMACY AND WORLD AFFAIRS, \$25,000, established in 1963 by the Board of Trustees, the income to be used annually as a fellowship award to a graduate student in these or related fields.

J. M. AND ELLA E. NEWELL, \$2,500, a gift in 1937 by the parents of Paul Newell, '28.

DR. AND MRS. GARRETT NEWKIRK AND JOHN MARTIN NEWKIRK, \$7,907, a bequest in 1928 of Mrs. Newkirk of Pasadena for a student preparing for Christian work.

ARTHUR AND FRANCIS W. NOBLE, \$16,173, a bequest in 1928 of Arthur Noble of Pasadena for a young man and a young woman of promise in their sophomore year.

OCCIDENTAL COLLEGE WOMEN'S CLUB, \$25,430.

H. P. PARSONS, \$5,000, a bequest in 1939 from a Long Beach friend.

J. I. PARSONS, \$1,000, a gift in 1903 by a Santa Rosa, California, friend.

EARLE AND EVA PEASE, \$33,488, a bequest in 1965.

THE DR. WILLIAM B. AND SARAH PETTUS - CALIFORNIA COLLEGE IN CHINA MEMORIAL, \$36,564, the income to be used for promoting and understanding a knowledge of the language, art, philosophy, culture and civilization of China, through scholarships, fellowships, grants, teaching, development of library and art collection of research.

MARJORIE A. B. PIBEL, \$6,000, a gift in 1967 of her mother, Mrs. Alfred H. Pibel, in memory of Marjorie Pibel of the class of 1929.

PRESBYTERIAN CHURCHES IN SOUTHERN CALIFORNIA, \$5,025. The following Presbyterian churches each gave \$1,000 in the 1906 Endowment Campaign for which Occidental in conjunction with the church awards \$150 per year to an outstanding member of each congregation:

First Presbyterian Church of Glendale
Immanuel Presbyterian Church of Los Angeles
First Presbyterian Church of Long Beach
First Presbyterian Church of Santa Monica
First Presbyterian Church of Santa Ana

BYRON PUTNAM, \$25,000, a bequest in 1966.

MOLLY PUTNAM, \$50,000, the net income to be used for the purpose of assisting undergraduate and graduate students of deserving mind and promising ability and personality.

READER'S DIGEST FOUNDATION, \$10,000.

ENDOWED AND OTHER BENEFACTIONS

OSCAR AND LEAH PHILLIPS ROBBINS MEMORIAL, \$105,637, established in 1958, by the estate of Oscar Robbins.

MRS. L. SCHOONOVER, \$664, a gift of Miss Mary Schoonover in honor of her mother.

D. M. SHIPMAN, \$1,000, a bequest by L. Y. Pratt in 1915.

FRANK WILSON STAFFORD AND JULIAN TATE STAFFORD, \$45,874, a bequest of Grace T. Stafford, the income to benefit male students preparing for careers in law or engineering.

STEARNS SUSTAINING, \$8,212, established in 1956.

EVELYN BARTMAN STEARNS MEMORIAL, \$30,027, given by Francis A. Stearns, Class of 1915, the income to provide a full-tuition scholarship for a student of promising ability and potential, preferably from the Corona Unified School District, or if no such student available, a student from Riverside County.

FRED STEBLER, \$10,427, a gift of Fred Stebler of Riverside in 1945. Mr. Stebler was a pioneer in the design and manufacture of citrus packing machinery.

LOUESE PEIRCE SWITZER, \$2,490, a gift in 1950 of Helene and Madelene Switzer, for a student interested in physical education, sports, and intercollegiate athletics and possessed of worthy character.

LIEUT. KEVORK V. TASHJIAN, \$4,295, gift in 1945 of Dr. and Mrs. V. A. K. Tashjian in memory of their son, of the Class of 1943, gallant officer of the 22nd Marines, killed in action at Okinawa, June 10, 1945, preferably for entering students as a morally repayable grant-in-aid.

MARY J. TAYLOR, \$8,700, a bequest in 1951 from a friend deeply interested in Christian education.

THEATRE, \$4,853, to be used to assist a student interested in the dramatic arts.

PEARL TIFFIN, \$30,000, gift of Dr. and Mrs. W. W. Tiffin of Los Angeles in 1914, in memory of their daughter.

WAR MEMORIAL, \$11,356, established in 1947-48 by gifts of alumni and friends of the College to honor the thirty-nine students who lost their lives in World War II.

ISABELLA WHYTE, \$14,000, a gift in 1931.

P. G. WINNETT, \$90,000, the income to be used for scholarships.

EMMA WOLF MEMORIAL, \$2,135, established in 1966.

CARROLL WOOD, \$601, established in 1966.

MAYME WRIGHT, \$1,000, established in 1964.

SCHOLARSHIPS SUPPORTED BY ANNUAL GIFTS AND GRANTS

ALUMNI, made up of contributions from several hundred Alumni and allocated by the Board of Governors for scholarship purposes. In 1968-69, \$70,909 was available.

ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS, \$5,000 available in 1968-69, to be awarded to students in the sciences who demonstrate high potential for graduate study. Established in 1964 by the Foundation.

ENDOWED AND OTHER BENEFACTIONS

FLORENCE NORMA BRADY, established in 1954 by the Gamma Kappa Theta Sorority, to be administered by the Dean of Women for emergency purposes of scholarship grants. Contributed to date, \$3,100.

CALIFORNIA CONGRESS OF PARENTS AND TEACHERS, two grants of \$500 each for a student entering elementary education and a student entering secondary education.

THE C. F. BRAUN & Co., established in 1952 for outstanding young men of merit. In 1968-69 \$3,600 was available.

CROWN ZELLERBACH FOUNDATION, established in 1956-57 for an outstanding upper division student who is a citizen of the United States and who is selected without regard to color, sex, creed, or country of origin. Financial need is not a primary consideration in the annual award of \$600.

CYPRUS MINES CORPORATION, established in 1957 for awards to students in the physical sciences. In 1968-69 the amount available was \$750.

MARY PATRICIA DAVIDSON, \$165, in memory of a late member of the class of 1949, supported annually by contributions from a foundation of like name. This scholarship grant is to be awarded annually to a worthy student of high character having financial need, morally repayable at the judgment of the recipient.

EBELL, \$750 each, payable \$75 monthly, given by the Ebell of Los Angeles, to students who have matriculated and are residents of Los Angeles County, on a basis of need, academic ability, character and potential promise.

FARMERS INSURANCE GROUP, established in 1957 by the Farmers Insurance Group. Scholarships to be awarded to second, third and fourth year students. In 1968-69 the amount available was \$500.

WILLIAM C. FREE AND MAZY BELL FREE, established in 1957 by the Mazy Bell Free Estate, for students who are needy, worthy, of deserving mind, and of promising ability and personality, one of whom must be in music. Scholarship grant may cover living expenses and tuition. Available for 1968-69, \$7,080.

WARREN GANNON, \$250 available in 1968-69.

GLORE FORGAN, WM. R. STAATS INC., full tuition, established in 1954 for students in economics.

WILLIAM N. AND JENNIE H. GOODWIN, \$600, established by the Jennie H. Goodwin Estate for aid in vocational training.

HAYNES FOUNDATION, for superior students majoring in the social sciences. \$8,400 available in 1968-69.

LAWRENCE A. HANSON FOUNDATION, \$1,000 available in 1967-68.

LAYNE FOUNDATION, two scholarships awarded annually, established in 1957 for the benefit of students majoring in religion and preparing to enter full-time Christian service. \$1,300 available in 1968-69.

JOHN A. MCCARTHY FOUNDATION, \$5,000 available in 1968-69 for international study.

MADLINE N. MCKINNIE TRUST, Stevens Weller, Trustee, the income available in 1968-69 amounting to \$1,800.

ROBERT GRANT MARTIN, a graduate scholarship in English, established by the Board of Trustees in 1931, in honor of Dr. Robert Grant Martin, Professor of English, 1924-31. The original provision of \$225 is now supplemented by the College to make possible an annual grant of \$2,000.

ENDOWED AND OTHER BENEFACTIONS

GEORGE HENRY MAYR, established as a trust fund administered by the Beverly Hills National Bank and Trust Company, by George Henry Mayr of Beverly Hills in 1949. The Trustees name the institutions to benefit from this fund and the amount to be distributed on a yearly basis. The college designates the persons to receive the scholarships. In 1968-69 this fund amounted to \$12,500.

CHARLES FREDERICK MORSE, established as a memorial in 1958 for Department of Music scholarship grants, to be administered by the chairman of the department. Total to date, \$3,393.

OCCIDENTAL LIFE INSURANCE COMPANY, \$1,000 available in 1968-69.

JOHN W. PORTER TRUST, preferably for a student from Long Beach. In 1968-69 the amount available was \$1,200.

AVIS SCOTT PORTERFIELD TRUST, for young men and women from the San Diego area, administered by the College in consultation with Lowell Davies, trustee of the fund.

MABEL WILSON RICHARDS, \$5,100 awarded annually, beginning in 1952-53, to young women residents of Los Angeles on the basis of need and sound scholarship. Trustees are Mrs. Ruth Walker and Mr. Carey S. Hill.

EVALYN ELIZABETH COOK RICHTER AND PAUL K. RICHTER MEMORIAL TRUSTS, \$10,000 available in 1968-69 for independent study.

JACK SAMUELSON, full tuition for a young man or woman who is planning service in a full-time Christian activity.

H. B. SILLIMAN, \$50, received through the Board of Christian Education of the United Presbyterian Church in the U.S.A.

SIGMA ALPHA IOTA, \$180, given annually by the Occidental College chapter of Sigma Alpha Iota to an upper division music major of high musicianship and need.

ALFRED P. SLOAN NATIONAL, established in 1958, a grant up to \$1,950 annually for four years (as determined by the Committee on Financial Aid), given by the Alfred P. Sloan Foundation, Inc., to a male student preferably in mathematics, the sciences, engineering, or business administration, beginning with the freshman year and renewable upon commendable performance.

TIMES MIRROR, to assist students whose fields of study are economics, history, political science, or psychology. First preference in awarding it to sons and daughters of employees of the Times Mirror Company.

TORCHLIGHTER, \$600, awarded on the basis of academic excellence (at least a "B" average), leadership potential, and financial need, to an upper-division student majoring in education. The candidate for the Torchlighter Scholarship should demonstrate, to a marked degree, the qualities of character and the motivations inferred by Plato when he said, "Those having torches will pass them on to others."

UNION OIL COMPANY OF CALIFORNIA FOUNDATION, \$3,000, established in 1968 for students who display leadership or superior diligence in one or more fields of science or art.

UNITED CALIFORNIA BANK, established in 1957, to assist young men in their junior and senior years who are planning to follow a business career. The amount of the award is \$1,000 per year.

ENDOWED AND OTHER BENEFACTIONS

HAL B. WALLIS, \$900, established by Mr. Wallis in 1967, for a student or students majoring or planning to major in psychology.

PRIZES AND SPECIAL FUNDS

THE CHARLES W. LIST MEMORIAL AWARD: Two or more prizes annually from the income of an endowed fund of \$31,698, to be awarded equally to at least one man and one woman chosen from the top one-third of the freshman class ranked scholastically and based on achievement rather than need. Each award is \$500. Factors to be considered are: (1) leadership, (2) character and personality, (3) maturity of purpose, and (4) good citizenship and Christian ideals. If the student is not in residence, the amount may be reduced. The endowment supporting this award was contributed by two sisters and a daughter in memory of Mr. List, an alumnus of the Class of 1908.

DANIEL STEWART HAMMACK MEMORIAL—JUNIOR CLASS HONOR AWARD: \$11,709, established in 1955 by Mrs. Daniel S. Hammack, Dan S. Hammack, Jr., and friends as a memorial to the late Daniel Stewart Hammack, '05, trustee from 1925 to 1953. The sum of \$250 to be awarded annually at the Commencement season, to a junior man and woman judged to be outstanding on grounds of high scholarship, strong moral character, loyalty to the Christian ideals of the College, and contributions to student life and welfare.

THE A. J. BRUNT MEMORIAL AWARD, established in 1965 by Mr. and Mrs. Richard H. Brunt as a memorial. The sum of \$100 is awarded annually to a sophomore man or woman judged to be outstanding in terms of sound scholarship, high moral character and leadership potential.

SELTZER AWARD, established in 1954, an award of \$100 each to the freshman man and freshman woman with the highest average for the year. Provided through funds given by Mr. Jules E. Seltzer, matched by college funds.

ARGONAUT AWARDS, established in 1968 by Mrs. Margaret Wilson Argo with a gift to endowment of \$10,000, providing annual awards to undergraduates as follows: (1) The Argonaut Fiction Award, for the best fiction, with three prizes of \$50.00, \$30.00, and \$20.00; (2) The Argonaut Drama Award, for the best drama of any length, with three prizes of \$50.00, \$30.00, and \$20.00; (3) The Argonaut Nonfiction Award, for the best expository writing, with three prizes of \$50.00, \$30.00, and \$20.00; and (4) The Argonaut Prize, two awards of \$50.00 each for the best twenty-minute oral presentations on literary topics, combining scholarly competence, imagination, relational insights, and wit.

ARNSTON MEMORIAL AWARD, established in 1965 from a bequest in the amount of \$15,681, the income from which shall be used annually for an award to the person who, in contest, shall submit the best essay on "Man: His Function and Place in the Universe," said essays not to be based on the Scriptures or Dogma.

JACK BELL MEMORIAL AWARD: \$1,500, the income to be used for a plaque to be awarded annually to a student who has shown outstanding creativity in the areas of speech and drama.

THE OSGOOD HARDY MEMORIAL AWARD of \$25, given annually to an outstanding major in the field of history who is a junior or senior.

THE ERNESTINE KINNEY AWARD: A plaque presented in 1961, by the Delta Omicron Tau Sorority and given annually to the outstanding senior woman majoring in education, selected by the Education Department faculty on the basis of teaching potential, leadership capability and academic excellence.

ENDOWED AND OTHER BENEFACTIONS

THE MARTIN DWELLE KNEELAND PRIZE FUND: From this fund of \$3,295 an annual award is made. This may be given once in his or her college course to a student preparing for the ministry or other religious work who has shown good all around scholarship and character and is in need of financial assistance.

EMMA E. MAES AWARD: Income from a gift of \$20,000 is used as grants to seniors for travel in Europe.

THE ROBERT T. MOORE POETRY PRIZES: From an endowment of \$2,500, the gift of Dr. and Mrs. Robert T. Moore. Prizes of \$50, \$30, and \$20 are annually awarded for the three best poems written by undergraduate students.

THE STERLING MORTON CONSTITUTIONAL ESSAY FUND: From an endowment of \$11,335 established by Sterling Morton, annual prizes of \$100, \$50, and \$25 are awarded for the three best essays submitted by an undergraduate on subjects related to the history and Constitution of the United States.

PACIFIC RAILROAD SOCIETY FUND: An endowed fund of \$3,250, established by the Pacific Railroad Society, Inc., the income from which shall be used for research by students or faculty members concerning the part played by railroads in the history of the West or any phase of the railroad industry, and for scholarships and/or student aid for students interested in the field of economics, political science or history wherein some part of the course involves some phase of the railroad industry.

THE ALFRED S. AND ELIZABETH D. PETERS MEMORIAL MUSIC PRIZE: Given in memory of Mr. and Mrs. Peters by members of their family and friends. An endowment of \$2,225 provides an annual award of \$100 to the music major who in the opinion of the faculty has done the most during the year to advance the ideals and the prestige of music on the campus.

THE PERCY F. SCHUMACHER AWARD: An endowment of \$1,000, to be used for a plaque awarded annually to the senior who in his or her college career has made an outstanding contribution to the work of the College within the field of the dramatic arts.

THE RAYMOND M. SELLE MEMORIAL AWARD, established in 1960 by the family, former students and friends of the late Raymond M. Selle, '20, Professor of Biology from 1923 to 1960 and chairman of the department from 1944 to 1956. The sum of \$100, interest from a portion of the Raymond M. Selle Endowment Fund for Biology and Premedicine, amounting to \$7,822, is to be awarded annually to a junior biology or premedical student on the basis of high scholarship, character and active participation in college activities, with emphasis on the biology department. The remainder of the income from the endowment fund is to be made available to the biology department.

ELINOR REMICK WARREN AWARD: \$3,000, the income to be used to provide an engraved trophy presented annually by Elinor Remick Warren to the outstanding student composer on the campus.

THE FRED H. SCHAUER AWARDS, \$3,000, the income to provide for trophies or plaques recognizing outstanding achievement in football.

THE B. H. CULLEY TROPHY: Established in 1956 by the Associated Men Students in honor of the Dean of Men to be awarded annually to the outstanding freshman basketball player.

THE JIM HARVEY TROPHY: \$240. Established in 1941 by John L. Harvey in honor of his son. The income from this fund is used to purchase, annually, a trophy to be awarded to a member of the track team.

ENDOWED AND OTHER BENEFACTIONS

ATHLETE OF THE YEAR TROPHY: Established in 1951 by the Associated Men Students to honor the outstanding graduating senior in the field of intercollegiate athletics.

INTER-FRATERNITY SING PRIZE: An endowment of \$4,000 given by Mrs. Alphonzo E. Bell, the income from which is to be used as prize money for the annual sing.

STUDENT BOOK COLLECTION CONTEST: A Student Book Collection Contest, open to juniors and seniors who are not previous winners, is sponsored annually by the Library Patrons to encourage student ownership of books. First, second and third prizes of \$75, \$50, and \$25, respectively, are awarded each spring.

FACULTY AWARDS

FACULTY ACHIEVEMENT AWARDS: Three awards of \$500 each, presented annually to a member of the faculty at each of the professorial ranks, selected by a faculty/administration committee on the basis of effective teaching, professional achievement, and service to the College.

THE DONALD R. LOFTSGORDON MEMORIAL AWARD FOR OUTSTANDING TEACHING: \$100, presented to a member of the faculty annually by the Senior Class and Associated Students of Occidental College in recognition and appreciation of exceptional ability to communicate and inspire.

LOAN FUNDS

The following revolving student loan funds are held in trust by the Board of Trustees and are administered by the Committee on Financial Aid to Students:

Achievement Rewards for College Scientists.....	\$5,000
Associated Men Students	100
The John Willis Baer Memorial.....	2,025
Bay Area Occidental Parents Club.....	100
Frank C. Bolt.....	4,990
Mary E. Brandt.....	3,500
Bertha B. Caldwell.....	540
James Ross Clark—Gift of Mrs. J. R. Clark.....	5,050
Muriel Stewart Cleland—Gift of Occidental Faculty Women's Club....	5,778
Sallie Glass Cleland—Gift of Mary Stewart.....	500
Bing Crosby Youth Foundation	4,750
Bee Crow	738
The Mary C. Cunningham Fund—Gift of Occidental College Women's Club	2,527
William Davis Memorial.....	100
George E. Dayton.....	1,000
Delta Omicron Tau Sorority.....	1,005
Erdman Hall	125
Ida E. Fraser.....	7,014
Mary Lindley Galloway.....	55,100
Cecil H. Gamble.....	7,000
Dr. and Mrs. Roy Gilliland.....	50
D. W. Hanna College Club.....	1,206
Mrs. O. T. Johnson.....	2,658
Leonard and Louise Jones.....	5,000

ENDOWED AND OTHER BENEFACTIONS

Mrs. Lora C. Knight.....	5,000
Mrs. John Lloyd-Butler.....	525
Euclid W. and Elizabeth McBride.....	4,945
Zechariah D. Mathuss—Gift of Mrs. Z. B. Mathuss.....	5,000
Sandra Matson	330
Mr. and Mrs. C. A. Miller.....	1,500
Charlie Louise Montgomery—Santa Ana Chapter U.D.C.....	5,175
Seeley W. Mudd—Gift of Mrs. S. W. Mudd.....	3,600
Occidental No. 1—Gift of Clarence J. Gamble.....	11,184
Occidental No. 2 and No. 3—Gift of Clarence J. Gamble.....	22,102
Orr Hall	89
Katherine Ostrander	28,646
George J. Pastre Memorial Fund	1,269
Phi Gamma Delta Mothers' Club.....	50
The George and Emma Reinhakel Fund.....	1,350
Julia Ellen Rogers Memorial.....	10,000
The Shinner Foundation Educational Assistance Fund.....	309,283
Albert Stone Foundation.....	3,113
Gertrude S. Thomas.....	5,000
Myrtle Thompson-Ida Uzzelle Memorial Loan Fund—Gift of Gamma Kappa Theta Sorority in 1959. (Administered by the Sorority 1924-1959).....	3,200
Walter Van E. Thompson.....	1,750
Charles H. Thorne.....	5,000
George H. Walker.....	1,500
Albert Davis Williams	19,424
William S. Young—Gift of Board of Christian Education, Presbyterian Church	9,181
Zeta Tau Zeta.....	75

SPECIAL LOAN FUNDS

Administered by the Associate Deans of Students:

MACINNES LOAN FUND, established by Dr. Ned D. Miller as a memorial to Rev. John MacInnes, consisting of short-term non- interest bearing loans of \$25 or less.....	\$ 1,250
LAURA AND ROLLA F. DENNIS LOAN FUND, established as a memorial by Herbert Dennis	335
WAYNE H. MARKLAND MEMORIAL FUND	323
BESS SHAPIRO HONOR LOAN FUND, established as a memorial by Dr. Morton Shapiro and Nancy Shapiro Frank.....	300
LENA TYLER—VIOLET KOHL LOAN FUND.....	577
FANNY ALBINGER LOAN FUND, established in 1955 in memory of Fanny Albinger	1,210
D.A.R. LOAN FUND, established in 1940 in memory of Mrs. Mary E. Fisk	50
NEWCOMB LOAN FUND, established in 1958 by Mrs. James G. Newcomb	1,000
JULIA A. PIPAL LOAN FUND, established in 1941.....	100
WOMEN'S UNIVERSITY CLUB JUNIORS, established in 1938.....	50

ENDOWED AND OTHER BENEFACTIONS

SANDRA MATSON REVOLVING STUDENT BOOK FUND, \$1,300, established by the Echo Park Methodist Church in Los Angeles as a memorial. One-half of the amount is available for loan to women and one-half to men through the respective offices of the personnel deans.

HIGHLAND PARK KIWANIS CLUB STUDENT LOAN FUND, established in 1958. In 1967-68 the fund totaled..... 3,745

VICTOR ALDEN ROBERTSON AND GEORGIA MAXWELL ROBERTSON EDUCATIONAL FUND, implemented in 1953 by a substantial token payment later to be augmented by further payments and testamentary provisions.

The following organizations administer their own scholarship and loan funds from which material assistance has been made available in recent years to Occidental students:

American Association of University Women, Glendale Branch.
 American Association of University Women, Los Angeles Branch.
 Beta Phi Delta Sorority.
 Beverly Hills Woman's Club.
 Business and Professional Women's Club of Pasadena.
 Eagle Rock Kiwanis Club.
 Ebell Club of Los Angeles.
 Kappa Sigma Building Fund, limited to children of former Delta Upsilon members.
 Los Feliz Women's Club.
 Omega Mu Pi.
 Pasadena College Women's Club.
 Rotary Club of Alhambra.
 Rotary Club of Glendale.
 Rotary Club of Hollywood.
 Rotary Club of Los Angeles.
 Rotary Club of Pasadena.
 Shakespeare Club of Pasadena.
 Henry Strong Foundation.
 Twentieth Century Club of Eagle Rock.

BOARD OF TRUSTEES

By the Articles of Incorporation the complete legal control and government of Occidental College rest in a self-perpetuating Board of Trustees. Five trustees are chosen from nominations made by the Alumni Association and serve for a period of five years; the remainder are elected at large and serve for a term of five years. The Board exercises general oversight of the College, determines its fundamental policies, supervises its finances, and appoints its administrative and instructional officers.

OFFICERS OF THE BOARD*

Kenneth T. Norris, LL.D.	<i>Chairman</i>
Robert J. Cannon	<i>Vice-Chairman</i>
The Rev. Ganse Little, D.D., LL.D., S.T.D.	<i>Vice-Chairman</i>
Dan S. Hammack, Jr., '35	<i>Secretary</i>
Janet B. Hoit, '27	<i>Treasurer</i>
Jean Paule	<i>Assistant Secretary</i>

MEMBERS OF THE BOARD

Term expiring 1969

Allan Braun	San Marino
Daniel P. Bryant	Pasadena
Edward W. Carter, LL.D.	Los Angeles
Stafford R. Grady	La Cañada
Frederick G. Larkin, Jr.	Los Angeles
Shirley C. Ward, Jr.	South Pasadena

Term expiring 1970

J. Stanley Johnson	Altadena
John R. Mage	Pasadena
Merritt K. Ruddock	Belvedere
Graham L. Sterling	Los Angeles

Term expiring 1971

Norman Barker, Jr.	Arcadia
Dan S. Hammack, Jr., '35	Glendale

*For the year 1968-69.

BOARD OF TRUSTEES

Edwin W. Pauley, x'23, LL.D., Litt.D. Beverly Hills
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Warren M. Christopher Los Angeles
Mrs. Maynard J. Toll, '26 Los Angeles

Term expiring 1973

The Rt. Rev. Francis Eric Bloy, D.D., S.T.D. La Cañada
Robert J. Cannon Los Angeles
Jerome W. Hull, '35 Hillsborough
The Rev. Ganse Little, D.D., LL.D., S.T.D. Pasadena
Kenneth T. Norris, LL.D. San Marino
Richard C. Gilman, Ph.D., LL.D., ex officio Los Angeles

ALUMNI MEMBERS

Term expiring 1969

John M. Kinard, '39 San Marino

Term expiring 1970

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Term expiring 1971

Morgan Odell, '42, D.P.A. Los Angeles

Term expiring 1972

Robert L. Packer, '36 San Marino

Term expiring 1973

Mrs. Philip R. Corrin, '45 San Gabriel

HONORARY LIFE MEMBERS

Richard Bard Somis
Remsen Bird, D.D., LL.D., L.H.D. (Pres., 1921-46) Carmel
The Rev. Eugene Carson Blake, D.D., LL.D., L.H.D., Litt.D., S.T.D.
New Canaan, Conn.
K. L. Carver, *Acad.* San Marino
Mrs. Norman Chandler, L.H.D., LL.D. Los Angeles
Mrs. Stuart Chevalier, Litt.D. Los Angeles
E. R. Chilcott, D.Eng. Pasadena
Bryant Essick, LL.D. Los Angeles

BOARD OF TRUSTEES

Robert J. Hadden, '20	Santa Barbara
Truman Johnson, '21	Riverside
Dana Latham, LL.D.	Newport Beach
Mrs. Euclid W. McBride, '19	Greenwich, Conn.
Harold C. McClellan, '22, LL.D.	San Marino
Richard W. Miller, x'21, LL.D.	Pasadena
Samuel B. Mosher	Santa Barbara
John K. Northrop, Sc.D.	Santa Barbara
Frank N. Rush, '09, LL.D.	South Pasadena
Arthur N. Young, '10, Ph.D., LL.D.	Pasadena

STANDING COMMITTEES OF THE BOARD*

Executive: Mr. Norris, *Chairman*; Mr. Cannon, Dr. Little, *Vice-Chairmen*;
Mr. Bryant, Mr. Carter, Mr. Grady, Mr. Mage, Mr. Sterling; *Advisers:*
Mr. McClellan, Mr. Rush

Development: Mr. Bryant, *Chairman*; Mr. Packer, *Vice-Chairman*; Mr.
Braun, Mr. Cannon, Mr. Carter, Mr. Hull, Mr. Mage, Mr. Pauley; *Ad-*
visers: Mr. Essick, Mr. Latham, Mr. Millar

Educational Program: Mr. Sterling, *Chairman*; Mr. Larkin, *Vice-Chairman*;
Mr. Bryant, Dr. Little, Mr. Packer, Mr. Ruddock; *Adviser:* Mr. Hadden

Finance: Mr. J. S. Johnson, *Chairman*; Mr. Kinard, *Vice-Chairman*; Mr.
Grady, Mr. Hull, Mr. Larkin, Mr. Packer, Mr. Sterling; *Advisers:* Mr.
Millar, Dr. Young

Grounds and Buildings: Mr. Cannon, *Chairman*; Dr. Odell, *Vice-Chairman*;
Mr. Braun, Mr. J. S. Johnson, Mr. Kinard, Mrs. Thorne, Mr. Ward

Honorary Degrees: Mr. Ruddock, *Chairman*; Bishop Bloy, Dr. Little, Mr.
Mage; *Adviser:* Mr. Latham

Nominating: Mr. Mage, *Chairman*; Mr. Carter, *Vice-Chairman*; Mr. Grady,
Mr. Kinard, Mr. Larkin, Mr. Sterling

Religious Life: Dr. Little, *Chairman*; Mr. Ward, *Vice-Chairman*; Bishop
Bloy, Mr. Bryant, Dr. Odell, Mrs. Toll

Student Affairs: Mr. Grady, *Chairman*; Mrs. Toll, *Vice-Chairman*; Mr.
Christopher, Mrs. Corrin, Mr. Hammack, Mr. Kinard, Dr. Odell, Mr.
Ward

*For the academic year 1968-69.

ADMINISTRATION 1969-70

Under the supervision and direction of the President, the administrative officers and faculty are charged with the responsibility of administering the educational policy and functioning of Occidental College.

PRESIDENT RICHARD C. GILMAN, PH.D., LL.D.

ACADEMIC PROGRAM

Dean of the Faculty and

Vice President for Academic Affairs ROBERT S. RYF, PH.D.

Assistant Dean of the Faculty TIMOTHY D. SANDERS, PH.D.

Librarian TYRUS G. HARMSEN, A.B.L.S., M.A.

Registrar CAROLYN J. AYARS, A.B.

Director of Athletics ROY DENNIS, M.A.

STUDENT SERVICES

Dean of Students DENNIS A. COLLINS, M.A.

Associate Dean of Students and

Director of Financial Aid BENJAMIN H. CULLEY, ED. D.

Associate Dean of Students BRIGIDA A. KNAUER, M.A.

Dean of Admission and Freshmen ROBERT L. BOVINETTE, M.S.

Associate Dean of Admission HERTA ANDERSON, A.B.

Assistant Dean of Admission CHARLES A. PETERSON, A.B.

Director of Career Counseling

and Placement CHESTER C. ARNOLD, M.A.

Director of Student Activities MARY L. MCALISTER, M.A.

Director of Upward Bound

Director of Counseling LEONARD M. VOSEN, Ph.D.

ADMINISTRATION

<i>Director of Health Service</i>	ETHEL M. HAMILTON, M.D.
<i>Physician</i>	VINCENT J. DeJOHN, M.D.
<i>Head Nurse</i>	RUBY RICH BURGAR, A.B., R.N.

BUSINESS MANAGEMENT

<i>Treasurer and Vice President for Business Affairs</i>	JANET B. HOIT, A.B.
<i>Business Manager</i>	DONALD E. HELLAND, M.B.A., C.P.A.
<i>Superintendent of Buildings and Grounds</i>	CHARLES E. TROWBRIDGE
<i>Director of Data Processing</i>	JAMES MICHAEL KELLY, M.B.A.
<i>Manager of Freeman College Union</i>	CLANCY MORRISON, B.S.
<i>Purchasing Agent and Manager of Book Store</i>	SIDNEY GRANETT, B.S.
<i>Manager of Thorne Hall</i>	PHYLLIS J. WARSCHAW

PLANNING AND DEVELOPMENT

<i>Vice President for Planning and Development</i>	LEE O. CASE, B.A.
<i>Assistant to the President</i>	ROBERT T. MAGNUSON, A.B.
<i>Assistant to the President</i>	HAROLD A. WAGNER, A.B., D.HUM.
<i>Director of Annual Giving</i>	RUSSELL B. FRIZZELL, M.A.
<i>Director of Alumni Relations</i>	RICHARD GALBRAITH, A.B.
<i>Assistant Director of Alumni Relations</i> . . .	ADELAIDE G. McMENAMIN, A.B.
<i>Director of Public Information</i>	THOMAS M. COCKRELL, M.A.
<i>Assistant Director of Public Information</i>	DAPHNE LORNE

<i>Chaplain</i>	BRUCE B. BUESCHEL, B.D., S.T.M.
<i>Secretary of the College</i>	JEAN PAULE, M.A.

FACULTY

With the exception of those of the President and the Dean of the Faculty, the names of the members of the Faculty are arranged alphabetically in groups as indicated by the several headings in this section. The year of the first appointment is given after each name. The appointments and academic rank indicated are for the academic year 1969-70.

- RICHARD CARLETON GILMAN (1965) *President of the College and Professor of Philosophy*
 B.A., 1944, Dartmouth College; Ph.D., 1952, Boston University; LL.D., 1966, Pomona College; LL.D., 1968, University of Southern California; LL.D., 1968, College of Idaho.
- ROBERT S. RYF (1955) *Dean of the Faculty and Vice President for Academic Affairs and Professor of English and Comparative Literature*
 A.B., 1939; M.A., 1953, Occidental College; Ph.D., 1956, Columbia University.

FULL-TIME FACULTY

- DONALD K. ADAMS (1955) *Associate Professor of English and Comparative Literature*
 A.B., B.Com., 1946, University of British Columbia; M.A., 1952; Ph.D., 1953, Northwestern University.
- GILMAN H. ALKIRE (1958) *Assistant Professor of Russian*
 A.B., 1949, Occidental College; M.A., 1951; Ph.D., 1966, University of California.
- RALPH L. AMEY (1965) *Assistant Professor of Chemistry*
 A.B., 1959, Pomona College; Ph.D., 1964, Brown University.
- GLENN W. ASKEW, JR. (1967) *Assistant Professor of Aerospace Studies*
 B.B.A., 1959, Southern Methodist University; M.A.O.M., 1968, University of Southern California; Captain, U.S.A.F.
- DAVID L. AXEEN (1969) *Instructor in American Studies and History of Civilization*
 B.A., 1964, University of Iowa; M.A., 1966, Yale University.
- LELAND S. BABCOCK (1952) *Associate Professor of German*
 A.B., 1947; M.A., 1949; Ph.D., 1956, University of California.
- EUGENE C. Bammel (1969) *Assistant Professor of Religion*
 B.A., 1958; M.A., 1963; S.T.B., 1964, University of Toronto; Ph.D., 1969, Syracuse University.
- MABEL S. BARNES (1950) *Professor of Mathematics*
 A.B., 1926, Cornell College; M.A., 1928, University of Wisconsin; Ph.D., 1931, Ohio State University.
- H. KEITH BEEBE (1954) *David B. and Mary H. Gamble Professor of Religion*
 A.B., 1943, Occidental College; B.D., 1945, Princeton Theological Seminary; Ed.D., 1951, Columbia University.
- RUTH M. BERKEY (1960) *Assistant Professor of Physical Education*
 B.S., 1957, George Pepperdine College; M.S., 1958, University of Southern California.
- JOSEPH H. BIRMAN (1949) *Professor of Geology*
 A.B., 1944, Brown University; M.Sc., 1950, California Institute of Technology; Ph.D., 1957, University of California at Los Angeles.
- VERNON L. BOLLMAN (1936) *Professor of Physics*
 B.S., 1931; M.S., 1933, University of Nebraska; Ph.D., 1936, California Institute of Technology.
- GILBERT BRIGHOUSE (1938) *Professor of Psychology*
 B.S., 1930; M.S., 1934, University of Chicago; Ph.D., 1936, State University of Iowa.

FACULTY

- ROGER K. BURKE (1947) *Professor of Physical Education*
B.S., 1942, Springfield College; M.S., 1950, University of California at Los Angeles; Ph.D., 1957, University of Southern California.
- LEI LANE BURRUS (1968) *Instructor in Physical Education*
A.B., 1967, Washington University; M.A., 1968, California State College at Los Angeles.
- BASIL BUSACCA (1955) *Professor of English and Comparative Literature*
A.B., 1939; M.A., 1941; Ph.D., 1950, University of Wisconsin.
- LARRY T. CALDWELL (1967) *Assistant Professor of Political Science*
B.A., 1962, College of Wooster; M.A., 1963; M.A.L.D., 1964; Ph.D., 1968, Fletcher School of Law and Diplomacy.
- GEORGE H. CLELAND (1954) *Associate Professor of Chemistry*
A.B., 1942, Occidental College; Ph.D., 1951, California Institute of Technology.
- NORMAN S. COHEN (1966) *Assistant Professor of History*
B.A., 1958, George Washington University; M.A., 1960, Pennsylvania State University; Ph.D., 1966, University of California.
- DAVID COLE (1947) *Professor of Psychology*
A.B., 1946, University of California at Los Angeles; M.A., 1948, Occidental College; Ph.D., 1954, Claremont Graduate School.
- CHARLES E. CRECELIUS (1968) *Professor of Aerospace Studies*
B.A., 1949, Willamette University; M.S., 1956, Southern Illinois University; Lt. Col., U.S.A.F.
- BENJAMIN H. CULLEY (1943) *Associate Dean of Students and Professor of Mathematics*
A.B., 1934; M.Ed., 1936; Ed.D., 1949, University of Southern California.
- DAVID CUMMINGS (1967) *Assistant Professor of Geology*
B.S., 1957, City College of New York; M.S., 1959, University of Tennessee; Ph.D., 1962, Michigan State University.
- FRANK P. DE HAAN (1961) *Associate Professor of Chemistry*
A.B., 1957, Calvin College; Ph.D., 1961, Purdue University.
- ROY DENNIS (1935) *Assistant Professor of Physical Education, Director of Athletics, and Coach of Swimming*
A.B., 1933, Occidental College; M.A., 1955, Los Angeles State College.
- LAURENCE DE RYCKE (1943) *Professor of Economics*
B.B.A., 1929; M.B.A., 1931, University of Oregon; Ph.D., 1945, University of California.
- GRANT L. DUNLAP (1954) *Associate Professor of Physical Education and Coach of Basketball and Baseball*
A.B., 1947; M.A., 1958, College of the Pacific.
- STUART B. ELLIOTT (1960) *Associate Professor of Physics*
B.S., 1949; M.S., 1951; Ph.D., 1960, Stanford University.
- GEORGE E. EVERETT (1968) *Assistant Professor of Art*
A.B., 1960, University of California, Los Angeles; M.A., 1963, Harvard University.
- JOHN DIXON FARMER (1967) *Instructor in Physical Education and Coach of Track*
A.B., 1963, Occidental College.
- RICHARD A. FICHTNER (1964) *Instructor in Physical Education*
B.A., 1962, University of California, Santa Barbara.
- BENEDICT FREEDMAN (1967) *Lecturer in Mathematics*
A.B., 1965, University of California, Los Angeles.
- G. ALAN FREEMAN (1969) *Instructor in Speech and Drama*
A.B., 1966; M.A., 1967, Occidental College.
- NORMAN W. FREESTONE (1940) *Professor of Speech*
A.B., 1935, Brigham Young University; M.A., 1937; Ph.D., 1941, University of Southern California.
- ERICH A. FREY (1960) *Associate Professor of German*
B.A., 1955, Nebraska Wesleyan University; M.A., 1957, University of Nebraska; Ph.D., 1963, University of Southern California.
- OLAF M. FRODSHAM (1950) *Associate Professor of Music*
A.B., 1937; M.A., 1938, University of Redlands.
- DOUGLAS A. GERHART (1967) *Instructor in Physical Education and Head Coach of Football*
A.B., 1959, Occidental College; M.A., 1964, San Fernando Valley State College.

FACULTY

- CYRIL K. GLOYN (1946) *Professor of Philosophy*
A.B., 1927, Occidental College; B.D., 1930, Union Theological Seminary; M.A., 1932; Ph.D., 1942, Columbia University.
- ROBERT GROSS (1949) *Professor of Music*
Diploma, 1932, Juilliard School of Music; A.B., 1940; Mus.D., 1967, The Colorado College.
- WILLIAM G. HAND (1967) *Assistant Professor of Biology*
A.B., 1963; M.A., 1965; Ph.D., 1967, University of California, Santa Barbara.
- ROBERT W. HANSEN (1956) *Professor of Art*
A.B., 1948; B.F.A., 1948, University of Nebraska; M.F.A., 1949, Escuela Universitaria de Bellas Artes, Mexico.
- JOHN WILLIAM HARDY (1961) *Associate Professor of Biology and
Curator of the Moore Laboratory of Zoology*
B.S., 1952, Southern Illinois University; M.S., 1954, Michigan State University; Ph.D., 1959, The University of Kansas.
- JOSEPH E. HARING (1959) *Richard W. Millar Associate Professor
of Economics and Finance*
B.S., 1952, Ohio State University; Ph.D., 1959, Columbia University.
- BRICE HARRIS, JR. (1965) *Associate Professor of History*
B.A., 1953, Swarthmore College; M.A., 1957; Ph.D., 1962, Harvard University.
- JANET E. HARRISON (1968) *Assistant Professor of English and
Comparative Literature*
A.T.C., 1954, Bath Academy of Art; M.A., 1961, North East Missouri State College; Ph.D., 1968, Ohio University.
- WILLIAM E. HENRY (1966) *Instructor in Sociology*
B.A., 1962, Long Beach State College; M.A., 1966, University of California at Los Angeles.
- TIMOTHY S. HILLEBRAND (1968) *Instructor in Anthropology*
A.B., 1964; M.A., 1966, University of California, Santa Barbara.
- GEORGES-LOUIS HINGOT (1966) *Instructor in French*
Bachelier, 1947, Universite' de Lille; M.A., 1965, University of California at Los Angeles.
- JAMES HOSNEY (1968) *Instructor by Special Appointment in
English and Comparative Literature*
A.B., 1965, Occidental College.
- ANNE B. HOWELLS (1966) *Assistant Professor of English*
B.A., 1963, Swarthmore College; M.A., 1966; Ph.D., 1967, University of Washington.
- ALVIN M. HUDSON (1956) *Associate Professor of Physics*
B.S., 1947; M.S., 1950; Ph.D., 1956, Stanford University.
- JOSEPH F. HUMPHREY (1967) *Instructor in Economics*
A.B., 1963, Occidental College; M.B.A., 1965, Stanford University.
- JANE S. JAQUETTE (1969) *Instructor in Political Science*
B.A., 1964, Swarthmore College.
- RONALD H. JEFFERS (1969) *Instructor in Music*
B.M., 1966; M.A., 1968, University of Michigan; M.A., 1969, Occidental College.
- LUTHER B. JENNINGS (1949) *Professor of Psychology*
A.B., 1949; M.A., 1950, Occidental College; Ph.D., 1959, Claremont Graduate School.
- LAURIS JONES (1951) *Professor of Music*
A.B., 1939, San Jose State College; M.A., 1942, Teachers College, Columbia University; D.M.A., 1967, University of Southern California.
- FRANKLYN D. JOSSELYN (1955) *Associate Professor of Religion*
A.B., 1937, University of California at Los Angeles; Th.B., 1940, Princeton Theological Seminary; Ed.D., 1951, Columbia University.
- JEROME H. KATSELL (1969) *Instructor in Russian*
A.B., 1964, University of California; M.A., 1967, University of California, Los Angeles.
- MARSHA KINDER (1965) *Assistant Professor of English and
Comparative Literature*
A.B., 1961; M.A., 1963; Ph.D., 1967, University of California, Los Angeles.
- CLIFTON B. KROEBER (1955) *Norman Bridge Professor of
Hispanic American History*
A.B., 1943; M.A., 1946; Ph.D., 1951, University of California.

FACULTY

- KENNETH S. KURTZ (1946) *Professor of English and American Literature*
A.B., 1929, Jamestown College; B.A., 1933; M.A., 1940, Oxford University; Ph.D., 1947, Yale University.
- FRANK L. LAMBERT (1948) *Professor of Chemistry*
A.B., 1939, Harvard University; Ph.D., 1942, University of Chicago.
- JAMES H. LARE (1962) *Associate Professor of Political Science*
A.B., 1955, Occidental College; M.A., 1957; Ph.D., 1965, Cornell University.
- LAWRENCE L. LARMORE (1968) *Assistant Professor of Mathematics*
B.S., 1961, Tulane University; Ph.D., 1965, Northwestern University.
- CORA BURT LAURIDSEN (1946) *Associate Professor of Music*
A.B., 1937; M.A., 1948, Occidental College.
- HERMAN A. LAUTER (1963) *Assistant Professor of Philosophy*
B.S., 1952, Purdue University; M.A., 1957, University of Washington; Ph.D., 1967, University of California, Los Angeles.
- ROBERT N. LEAR (1969) *Instructor in History*
B.A., 1964, Bard College; M.A., 1965, Harvard University.
- BRUCE T. LEIMSDOR (1968) *Instructor in Spanish*
B.A., 1963, Swarthmore College; M.A., 1965, Princeton University.
- C. SCOTT LITTLETON (1962) *Associate Professor of Anthropology*
A.B., 1957; M.A., 1962; Ph.D., 1965, University of California, Los Angeles.
- JOHN S. McANALLY (1957) *Associate Professor of Chemistry*
B.S., 1938; M.A., 1940; Ph.D., 1950, Indiana University.
- CHARLES E. McCONNEL (1967) *Instructor in Economics*
A.B., 1961; M.A., 1964, San Francisco State College.
- RAYMOND G. McKELVEY (1939) *Professor of Political Science*
A.B., 1930, Cornell University; M.A., 1931, Claremont Colleges.
- FELIX E. MCKERNAN (1955) *Associate Professor of Music*
A.B., 1937, University of Miami; M.M., 1946, University of Michigan; Ed.D., 1956, University of Southern California.
- JOHN W. McMENAMIN (1946) *Professor of Biology*
A.B., 1940, Occidental College; M.A., 1946; Ph.D., 1949, University of California at Los Angeles.
- PHYLLIS MAEL (1968) *Instructor in English and Comparative Literature*
A.B., 1955; M.A., 1961, University of California, Los Angeles.
- IRWIN MAHLER (1957) *Professor of Psychology*
B.A., 1947, University of California at Los Angeles; M.A., 1948; Ph.D., 1950, Stanford University.
- KAREN L. MAXWELL (1968) *Assistant Professor of English and Comparative Literature*
A.B., 1963, University of Southern California; M.A., 1965; Ph.D., 1968, Harvard University.
- EDWARD W. MILL (1962) . . . *Chevalier Professor of Diplomacy and World Affairs*
B.A., 1940, University of Wisconsin; M.A., 1941, University of Michigan; M.A., 1953; Ph.D., 1954, Princeton University.
- WILLIAM J. MORRIS (1955) *Professor of Geology*
A.B., 1948, Syracuse University; M.A., 1950; Ph.D., 1951, Princeton University.
- MARTIN L. MORTON (1967) *Assistant Professor of Biology*
A.B., 1959; M.A., 1961, San Jose State College; Ph.D., 1966, Washington State University.
- JOAN RAND MOSCHOVAKIS (1965-67; 1969) . . *Assistant Professor of Mathematics*
A.B., 1959, University of California; M.S., 1961; Ph.D., 1965, University of Wisconsin.
- WILLIAM R. NEBLETT, JR. (1965) *Assistant Professor of Philosophy*
B.A., 1956; M.A., 1957, Florida State University; Ph.D., 1968, University of California, Los Angeles.
- REX R. NELSON (1959) *Associate Professor of Physics*
B.A., 1949, Kenyon College; M.S., 1951, University of California at Los Angeles; Ph.D., 1959, Pennsylvania State University.
- EVA M. NIETO (1969) *Instructor in Spanish*
A.B., 1958; M.A., 1963, University of California, Los Angeles.
- FRANKLIN S. ODO (1968) *Instructor in History*
A.B., 1961, Princeton University; M.A., 1963, Harvard University.

FACULTY

- KENNETH OLIVER (1948) *Professor of English and Comparative Literature*
A.B., 1935, Willamette University; M.A., 1939, University of Washington; Ph.D., 1947, University of Wisconsin.
- LEWIS J. OWEN (1959) *Professor of English and Comparative Literature*
A.B., 1949, Harvard College; A.M., 1950, Harvard University; Ph.D., 1958, University of London.
- LILIA A. PACKLER (1967) *Instructor by Special Appointment in Russian*
Diploma, 1958, Moscow State Institute for Foreign Languages; Certificate, 1961, Moscow City Department of Education.
- OMAR M. PAXSON (1950) *Professor of Speech and Drama*
A.B., 1948, Occidental College; M.A., 1950; Ph.D., 1960, Northwestern University.
- CONSTANCE M. PERKINS (1947) *Professor of Art*
A.B., 1935, University of Denver; M.A., 1937, Mills College.
- ROY G. PETRIE (1950) *Professor of Education*
A.B., 1935, University of Nevada; Ed.D., 1949, Stanford University.
- ROBERT P. PRICHARD (1957) *Assistant Professor of Music and College Organist*
A.B., 1952; M.A., 1960, University of Southern California.
- ANNABELLE M. REA (1966) *Instructor in French*
B.A., 1957, University of California at Santa Barbara; M.A., 1961, Middlebury College.
- RICHARD F. REATH (1947) *Cecil H. and Louise Gamble Professor of American Institutions*
A.B., 1938, Pacific University; Ph.D., 1944, University of Wisconsin.
- THOMAS ROBERTSON (1960) *Associate Professor of Mathematics*
B.S., 1953, University of St. Andrews; M.A., 1959, University of Southern California.
- JOHN E. RODES (1950) *Professor of History*
A.B., 1943, University of Southern California; Certificat d'Etudes Superieures d'Histoire, 1947, Sorbonne; M.A., 1948, University of Southern California; M.A., 1949; Ph.D., 1954, Harvard University.
- JOSEPH J. RODGERS, JR. (1968) *Assistant Professor of French*
B.A., 1962, Morehouse College; M.A., 1965, University of Wisconsin; Ph.D., 1969, University of Southern California.
- ANDREW F. ROLLE (1952) *Robert Glass Cleland Professor of American History*
A.B., 1943, Occidental College; M.A., 1949; Ph.D., 1952, University of California at Los Angeles.
- TIMOTHY D. SANDERS (1964) *Assistant Dean of the Faculty and Associate Professor of Physics*
B.S., 1957; M.S., 1959; Ph.D., 1962, Stanford University.
- VIRGINIA C. SEASE (1967) *Instructor by Special Appointment in German*
B.A., Douglass College, Rutgers University; M.A., 1965; Ph.D., 1969, University of Southern California.
- CHARLES W. SEEKINS (1959) *Professor of Mathematics*
A.B., 1938, Occidental College; Ph.D., 1942, California Institute of Technology.
- HERBERT SEGALL (1958) *Associate Professor of Physics*
B.S., 1951, City College of New York; Ph.D., 1955, Pennsylvania State University.
- EDWARD H. SHAFFER (1968) *Assistant Professor of Economics*
B.A., 1948; M.A., 1949, University of Michigan; Ph.D., 1966, Columbia University.
- PAUL M. SHELDON (1950) *Professor of Sociology*
A.B., 1931, Harvard College; M.A., 1937; Ph.D., 1951, New York University.
- NATHAN SHENFELD (1965) *Associate Professor of Psychology*
B.S., 1945, Illinois Institute of Technology; Ph.D., 1958, University of Buffalo.
- ANN T. SMITH (1969) *Instructor in Biology*
A.B., 1965, Carleton College.
- JO M. STANCHFIELD (1960) *Professor of Education*
B.A., 1938, Hillsdale College; M.A., 1957, University of California; Ph.D., 1960, University of California at Los Angeles.
- JOHN S. STEPHENS, JR. (1959) *Associate Professor of Biology*
B.A., 1954, Stanford University; M.A., 1957; Ph.D., 1960, University of California at Los Angeles.
- HOWARD S. SWAN (1934) *James G. Warren Professor of Music*
A.B., 1928, Pomona College; M.A., 1941, Claremont Colleges; Mus.D., 1959, Pomona College.

FACULTY

- LINDA M. SWEETING (1969) *Instructor in Chemistry*
B.Sc., 1964; M.A., 1965, University of Toronto.
- LELAND C. SWENSON (1969) *Instructor in Psychology*
B.A., 1965, Western Michigan University; M.A., 1967, Wayne State University.
- KENNETH E. SWICK (1967) *Assistant Professor of Mathematics*
B.S., 1957, Anderson College; M.A., 1964, University of Southern California; Ph.D., 1967, The University of Iowa.
- WILLIAM L. THEOBALD (1967) *Assistant Professor of Biology*
B.S., 1958; M.S., 1959, Rutgers University; Ph.D., 1963, University of California, Los Angeles.
- VINCENT TRAINA (1969) *Instructor by Special Appointment in French and Linguistics*
B.A., 1962, Hunter College of the University of New York; M.A., 1969, University of Washington.
- PATRICK H. WELLS (1957) *Associate Professor of Biology*
A.B., 1948, University of California, Santa Barbara College; Ph.D., 1951, Stanford University.
- CHARLES D. WEST (1967) *Assistant Professor of Chemistry*
A.B., 1959, Pomona College; Ph.D., 1964, Massachusetts Institute of Technology.
- REIKO WILLIAMS (1968) *Instructor in Art*
B.A., 1961, Waseda University (Tokyo, Japan), M.A., 1967, University of California, Los Angeles.
- ROBERT W. WINTER (1963) *Associate Professor of the History of Civilization*
A.B., 1947, Dartmouth College; Ph.D., 1957, Johns Hopkins University.
- SILVIO G. ZENONE (1969) *Instructor in Physics*
B.A., 1960, Harpur College; M.A., 1964, Syracuse University.

PART-TIME FACULTY ON SPECIAL APPOINTMENT

- GEORGE P. BAKER (1964) *Teacher of Sculpture*
A.B., 1958, Occidental College; M.F.A., 1960, University of Southern California.
- VIRGINIA BAKER (1969) *Teacher of Violin*
Artist's Diploma, Juilliard School of Music.
- CAROL BAUM (1964) *Teacher of Harp*
Curtis Institute of Music, 1962.
- JACK K. DALTON (1960) *Visiting Instructor in Art Education*
B.F.A., 1957; M.A., 1951, University of Arizona.
- DARRYL DENNING (1968) *Teacher of Guitar*
A.B., 1961, University of California, Santa Barbara.
- JOSEPH J. DI TULLIO (1959) *Teacher of Cello*
- DAVID M. ELDER (1969) *Visiting Instructor in Sculpture*
A.B., 1957, Wittenberg University; M.A., 1961, Ohio State University.
- CIWA GRIFFITHS (1958) *Lecturer, Department of Speech*
A.B., 1932, San Francisco State College; M.S., 1941, University of Massachusetts; Ed.D., 1955, University of Southern California.
- J. EUGENE GRIGSBY, III (1969) *Instructor in Urban Studies*
A.B., 1966, Occidental College; M.A., 1968, University of California, Los Angeles.
- MARY JANE C. HEWITT (1968) *Lecturer in American Studies*
B.A., 1947, University of Minnesota; M.A., 1966, University of Southern California.
- MILTON KESTENBAUM (1966) *Teacher of Bass*
- ELLA KUBE (1952) *Research Associate, Department of Sociology*
A.B., 1941, College of Emporia; Ph.D., 1950, University of California at Los Angeles.
- JOSEPHINE M. LOTT (1966) *Teacher of Voice*
B.Mus., 1963, Manhattan School of Music; M.Mus., 1964, University of Southern California.
- DANIEL STEPHEN MCHARGUE, II (1967) *Instructor by Special Appointment in Diplomacy and World Affairs*
A.B., 1965; M.A., 1969, Occidental College.
- ALFRED S. MOORE (1968) *Lecturer in Education*
A.B., 1953, University of Southern California; M.A., 1960, California State College at Los Angeles.
- DONALD MUGGERIDGE (1963) *Teacher of Oboe*
- RAY M. NOWLIN (1958) *Teacher of Bassoon*

FACULTY

- GARY K. PABEN (1968) *Instructor by Special Appointment
in Speech and Drama*
B.S., 1964, Southern Illinois University; M.A., 1969, Occidental College.
- RALPH PYLE (1963) *Teacher of French Horn*
- LESTER REMSEN (1962) *Teacher of Trumpet*
- E. LLEWELLYN ROBERTS (1956) *Teacher of Voice*
Mus.D., 1952, McMurry College.
- ERNEST ROSENTHAL (1965) *Teacher of Graphics*
- E. FRANKLIN SABIN (1959) *Teacher of Clarinet*
- BERNARDO SEGALL (1969) *Teacher of Piano*
Diploma, Dudley College, Saopaulo, Brazil; Mus.D., Music Conservatorio, de Saopaulo, Brazil.
- CHARLES SHAFFER (1966) *Teacher of Piano*
B.Mus., 1958; M.Mus., 1966, University of Redlands.
- TERUO SHIDA (1967) *Teacher of Design*
A.B., 1964, University of Southern California.
- ROGER STEVENS (1958) *Teacher of Flute*
B.A., 1940, Eastman School of Music.

PROFESSIONAL LIBRARIANS

- TYRUS G. HARMSSEN (1959) *College Librarian*
A.B., 1947; M.A., 1950, Stanford University; A.B.L.S., 1948, University of Michigan.
- RUTH A. DIVELEY (1939) *Acquisitions Librarian*
A.B., 1928, College of Puget Sound; M.A., 1929; A.B.L.S., 1936, University of Washington.
- MARIAN L. FELLNER (1968) *Assistant Cataloger*
A.B., 1966, Occidental College; M.L.S., 1968, University of California, Los Angeles.
- BARBARA V. MYERS (1960) *Catalog Librarian*
B.A., 1935, Wellesley College; M.S.L.S., 1962, University of Southern California.
- RAYMA ROUNDS (1965) *Assistant Cataloger*
A.B., 1954, San Francisco State College; M.S.L.S., 1961, University of Southern California.
- JOHN SAEGER (1963) *Reference Librarian*
A.B., 1936; A.M., 1937, Oberlin College; B.S.L.S., 1942, Western Reserve University.
- CYNTHIA WOOD (1968) *Assistant Acquisitions Librarian*
B.A., 1963, Washington University; M.L.S., 1968, University of California, Los Angeles.

EMERITI

- REMSEN DUBOIS BIRD (1921-1946) *President Emeritus*
A.B., 1909, Lafayette College; B.D., 1912, Princeton Theological Seminary; D.D., 1919, Lafayette College; LL.D., 1937, Pomona College; LL.D., 1937, Albany College; L.H.D., 1940, University of Southern California; L.H.D., 1940, College of Osteopathic Physicians and Surgeons; LL.D., 1946, University of California at Los Angeles; LL.D., 1946, Occidental College.
- WILLIAM WILSON ANDERSON (1924-1954) *Director of Athletics Emeritus*
B.S., 1917, University of Illinois.
- GABRIELE VONMUNK BENTON (1952-1968) *Professor Emeritus of
Romance Languages*
Ph.D., 1926, University of Vienna.
- JAMES GRAHAM BICKLEY (1935-1965) *Professor Emeritus of
Romance Languages*
B.S., 1921; M.A., 1928, University of Alabama; Ph.D., 1935, University of California.
- FLORENCE NORMA BRADY (1927-1966) *Registrar and Secretary of the
Faculty Emeritus*
A.B., 1919; Litt.D., 1966, Occidental College.
- LEON E. DOSTERT (1963-1969) *Professor Emeritus of French and
Linguistics*
B.S.F.S., 1928; Ph.B., 1930; M.A., 1931, Georgetown University; Litt.D., 1957, Franklin and Marshall College; LL.D., 1958, Georgetown University; Litt.D., 1960, Occidental College.

FACULTY

- HAZEL ELIZABETH FIELD (1927-1956) *Professor Emeritus of Biology*
A.B., 1912, Western College for Women; M.S., 1915, University of Chicago; Ph.D., 1927, University of California; Sc.D., 1962, Western College for Women.
- ERNESTINE ADELE KINNEY (1925-1960) *Professor Emeritus of Education*
A.B., 1917, Occidental College; M.A., 1918; Ed.D., 1931, University of California.
- HARRY ALLISTER KIRKPATRICK (1935-1957) *Professor Emeritus of Physics*
B.S., 1914, Occidental College; Ph.D., 1931, California Institute of Technology.
- SILVA LAKE (1948-1963) *Associate Professor Emeritus of Religion*
A.B., 1924, University of Vermont; M.A., 1929, Radcliffe College; Ph.D., 1935, Brown University.
- FRED F. McLAIN (1921-1954) *Comptroller Emeritus*
A.B., 1916, Occidental College.
- FRANK JASON SMILEY (1919-1945) *Professor Emeritus of Biology and Geology*
A.B., 1913; M.A., 1914, Stanford University; M.A., 1915; Ph.D., 1917, Harvard University.
- ELSIE MAY SMITHIES (1944-1954) *Dean of Women Emeritus*
A.B., 1910, Lawrence College; M.A., 1926, University of Chicago.
- MARY LAING SWIFT (1954-1965) *Dean of Women Emeritus*
A.B., 1926, Vassar College; M.A., 1941, Teachers College, Columbia University.
- ETHEL TAYLOR (1926-1952) *Associate Professor Emeritus of German*
A.B., 1906, University of Michigan; M.A., 1925, Stanford University.
- CARL FREDERICK TRIEB (1928-1963) *Professor Emeritus of Education*
A.B., 1922, University of California; M.A., 1931, University of Southern California; Ph.D., 1943, Stanford University.
- J. DONALD YOUNG (1936-1962) *Professor Emeritus of Art*
A.B., 1919, Columbia University; M.A., 1920; M.F.A., 1925, Princeton University.

STANDING COMMITTEES OF THE FACULTY

- ACADEMIC STANDING AND STUDENT CONDUCT: *Morris*, Ayars, Collins, Culley, Cummings, Farmer, Freestone, Gloyn, Knauer, Neblett
- ADMISSION: *Kinder*, Amey, Anderson, Ayars, Barnes, Bovinette, Cleland, Collins, Culley, de Rycke, Dunlap, Howells, Jones, Knauer, Mahler, Moschovakis, Odo, Prichard, Segall, Wells, Williams
- ATHLETIC: *Morton*, Culley, Dennis, McConnell, Nelson, Seekins, Swick
- COMMITTEES: *Owen*, Alkire, Birman, Nelson, Robertson, Shenfeld
- EDUCATIONAL POLICY AND CURRICULUM: *Ryf*, Busacca, Freedman, Lauter, Littleton, McKelvey, Nelson, Rodes, Winter
- FACULTY INTERESTS: *McAnally*, Babcock, Beebe, Burke, Hillebrand, Humphrey, Odo, Petrie
- FINANCIAL AID: *Caldwell*, Anderson, Collins, Culley, Fichtner, Haring, Knauer, McKernan, West
- GRADUATE: *Sanders*, Adams, Ayars, Frodsham, Gross, Hand, Leimsidor, Mill, Swick
- GRADUATE FELLOWSHIPS: *Reath*, Harris, Hudson, Josselyn, Kurtz, Sanders, Theobald
- INTERNATIONAL STUDIES: *Frey*, Ayars, Collins, Elliott, Harrison, Hingot, Jennings, Lare, Mill, Perkins, Rea
- LIBRARY: *Rolle*, Adams, Cohen, Everett, Harmsen, Larmore, Packler, Shaffer, Theobald

FACULTY

STUDENT LIFE: *Henry*, Berkey, Burrus, Collins, Crecelius, Culley, Gerhart, Hardy, Knauer, Lauter, Maxwell, Paxson, Rodgers, Sheldon

TEACHER EDUCATION: *Jennings*, Berkey, Bollman, De Haan, Frodsham, Leim-sidor, Oliver, Petrie, Seekins

ADVISORY COMMITTEES TO THE PRESIDENT

ADVISORY COUNCIL: *Ryf*, Birman, Cole, Collins, Culley, Hansen, Kroeber, Lare, Mahler, Stephens, Swan

CONVOCATIONS AND VISITING LECTURERS: Cohen, Cummings, de Rycke, McKelvey, Mill, Oliver

FACULTY ACHIEVEMENT AWARDS: Cohen, Cole, Dunlap, Kinder, Owen, Perkins, Rolle, Ryf, Stephens, Swan

HONORARY DEGREES: de Rycke, Gloyn, McAnally, McMenamin, Morris, Owen, Swan

ALUMNI ASSOCIATION

The Occidental College Alumni Association was organized in 1894 and has a record of service to the College since that date. The Association seeks to contribute to the continuing development of Occidental College by strengthening the bond which exists between the College and its former students.

A graduate of Occidental College and anyone who has completed a minimum of eight courses, or equivalent, of undergraduate work at Occidental becomes a member of the Alumni Association upon graduation of his class. Graduate students who have completed a year of work at the College (six courses or equivalent) are also members of the Alumni Association.

The Alumni Association functions under the direction of the Alumni Board of Governors. In addition to the twenty-one members of the Board of Governors, there are five alumni trustees serving five-year terms on the Occidental Board of Trustees.

The *Occidental College Alumnus* is published four times a year and mailed to all members. The Association provides alumni-centered activities on the campus, as well as in major geographic centers of the country. The Annual Fund provides a means for alumni to express their interest in the College through financial support.

OFFICERS OF THE BOARD OF GOVERNORS*

Stephen F. Hinchliffe, Jr., '55	<i>Chairman and President of the Alumni Association</i>
David A. Thomas, '43	<i>Vice-Chairman</i>
Mrs. John C. Cushman, '55	<i>Secretary</i>

MEMBERS OF THE BOARD OF GOVERNORS

Term expiring 1969

Daniel M. Brigham, Jr., '50	San Marino
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David A. Thomas, '43	Arcadia
Mrs. Ladd Thomas, '59	Altadena
John P. Trueblood, '55	Los Angeles

*For the year 1968-69.

ALUMNI ASSOCIATION

Term expiring 1970

Florence N. Brady, '19, Litt.D.	Los Angeles
Mrs. John C. Cushman, '55	Altadena
F. Laird Facey, '53, M.D.	Los Angeles
Andrew W. MacCormick, '38, D.D.	La Habra
Millard H. McLain, '43, M.D.	San Marino
Kenneth A. Nagel, '21.	Pasadena
Baltimore Scott, '62	Los Angeles

Term expiring 1971

Edward R. Chilcott, Jr., '58.	Glendale
The Rev. David R. Christ, '55.	Newbury Park
William D. Eldred, '50.	Glendora
Mrs. Howard E. French, '51	Los Angeles
William C. Kinard, '40	Pasadena
G. Christopher McLane, '64	Glendale
Robert E. Thomson, '63	Los Angeles

EX-OFFICIO REPRESENTATIVES

Richard C. Gilman, Ph.D., LL.D.	Los Angeles
Richard Galbraith, '41	South Pasadena
David L. Roberson, '63	Irvine
Mrs. John McMenamin, '40	Los Angeles
Robert Magnuson, '39	South Pasadena
Russell Frizzell	Los Angeles
Harold Wagner, '24	San Marino
Frederick Spavins, '69	New York
Gilbert H. McFadden, '54	Whittier
Cyril K. Gloyn, '27, Ph.D.	South Pasadena
Robert Lamson, '40	La Cañada
Charles Rubsamen, '44	Pasadena

REGISTRATION STATISTICS, DEGREES AND HONORS

GENERAL SUMMARY OF REGISTRATION, 1967-68

	<i>Fall Term</i>			<i>Winter Term</i>			<i>Spring Term</i>		
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Graduates	48	35	83	37	35	72	44	39	83
Seniors	193	114	307	222	141	363	239	145	384
Juniors	266	172	438	253	141	394	243	137	380
Sophomores ...	267	181	448	253	170	423	237	159	396
Freshmen	303	187	490	291	180	471	281	175	456
Special	6	7	13	11	7	18	9	6	15
Total	1083	696	1779	1067	674	1741	1053	661	1714
Total Number of Individuals Registered									
Fall, Winter, Spring Terms 1968-69							1130	735	1865
Summer Term 1968							172	144	316
							1302	879	2181
Less duplication of Summer Term Students									
in any regular term 1968-69							110	97	207
NET TOTAL — July 1968-June 1969							1192	782	1974

SUMMARY OF DEGREES CONFERRED IN 1967-68

<i>Honorary Degrees</i>		<i>Degrees in Course</i>	
Doctor of Divinity	1	Doctor of Philosophy	3
Doctor of Laws	1	Master of Arts	19
Doctor of Letters	1	Bachelor of Arts	380
Doctor of Music	1		
Doctor of Science	1		

HONORARY DEGREES CONFERRED IN 1967-68

Doctor of Divinity

F. Thomas Trotter

Doctor of Laws

Richard H. Sullivan

Doctor of Letters

James Thorpe

Doctor of Music

Zubin Mehta

Doctor of Science

Harold F. Mayfield

DEGREES IN COURSE CONFERRED IN 1967-68

Doctor of Philosophy

Audra Browman Adelberger
 Sandra Elizabeth Saari
 Russell J. Wood

Master of Arts

Arturo Y Daquila Aportadera	Robert Joseph Papstein
Donald Graham Caldwell	Robert Edward Peters
Thak Chaloeintiarana	Phanni Chatrpolaraksha Phongsak
Donna Hartman Dutton	Laura Jackman Ranks
Suzanne Eugenie Bronson Falzone	John Jay Reed
Loren Harold Filbeck	Donna Spring Sandifer
Stephen Geiger George	Mary Milton Shirley
Gerald Stephen Key	William Steven Stone
James Andrew Krusoe	Anthony Alan Vintcent
Thomas Stewart Nicholson	

Bachelor of Arts

Graduation Honors include the following: *Summa cum Laude*, awarded to those students who achieved a grade of A in at least 8/9 of their courses taken with a grade and have passed the comprehensive examination with distinction; *Magna cum Laude*, awarded to those students who have achieved a grade of A in at least 2/3 of their courses taken with a grade and have passed the comprehensive examination; *Cum Laude*, awarded to those students who have achieved a grade of A in at least 5/12 of their courses taken with a grade and have passed the comprehensive. *Summa cum Laude* is indicated by ¹, *Magna cum Laude* by ², and *Cum Laude* by ³.

David John Aguayo	Robert Denton Bliss
Patrick Woodrow Albe	Daniel Michael Bloch
David Henry Albert	Harold Keith Boettcher
Gerald Robert Alderson	Nancy Barbara Booz
Barbara Louise Alexander	Richard Lee Boyce
Geoffrey Lynn Alexander	Daniel Henry Boylan
James Michael Allen	³ Sheila Marie Boylston
Susanne Ruth Haas Anderson	William O. Brackney
Glenn H. Angelo	² Warren Niles Brakensiek
Stephen Neal Applebaum	Terry Allen Bremner
Robert William Arter	³ Patricia Wipfler Bricca
Elizabeth Sue Ashley	Marcia Richardson Bridge
	Paul Alfred Brill, Jr.
James Alan Baker	John Thomas Brinker
³ John Wesley Barton	Lee H. Brockett
Paul Louis Basile, Jr.	Paula Jean Ruth Brogan
Barbara Carolyn Batten	Maureen Brown
Gayla Lee Beauchamp	Arne Bruusgaard
Toni Prather Bell	Mette Bruusgaard
³ Wilbert E. Bennett	Julienne Elizabeth Bryant
² Todd Alan Bergesen	Laurie Jean Bryant
Robert Donald Beutel	Denise Elizabeth Buckawick
Robert Dirk Beving	² Kenneth David Buckwalter
John Angelo Bidasio	Susan Melinda Budd
Mary Louise Biggerstaff	³ Donald Vinson Burk
James Edward Biller	Terry L. Burnes
Charles William Blair	

DEGREES

- Gordon Lee Campbell
Robert Clifford Cannon
Emily Rendleman Carrigan
- ³Martha Jane Carriger
Michael William Casey
Owens Boomer Castleman
- ³Robert Sing Yick Chang
- ³Kay Chloupek
Judith Anne Clark
Edmond Jackson Clinton, III
Patrick Maclellan Cockett
Robert Lynn Cody
Kathryn Collins
Ronald Douglas Collins
- ³Susan Elizabeth Colton
Jimmy Don Conner
- ³Maria Anita Ramirez Contreras
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Francis Jackson Cooley
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Nancy Joy Corcoran
John Joseph Cornman
Lenissongui Coulibaly
William Mathew Courington
Lucinda Love Cox
Clayton Wade Crawford
James Kenyon Crawford
- ³Donald Arthur Cronk
Richard Davis Crosland
Anne Kathleen Cullen
- Marc Scott Daniels
Noel Iams Daniels
Laurie Bess Hardwick Davidson
Jack Spencer Davis
Linda Sue Davis
Richard Gary Davis
Laurence William Vail De Boer
Andrew William Deems
Arthur Edward De Nio
Clare van den Berg des Lauriers
Stephen Evans Dixon
Richard Nathan Dorfman
Joseph Hairston Duff
Wendy Bjerkan Dunagan
Louise Jordan Dungan
Richard Harlan Dwiggins
- ²Joseph Craig Eakin, Jr.
Georgia L. Earnest
John Levis Easthope, Jr.
Janis Kay Ekdahl
Frederick Duncan Elliott, Jr.
- ³James Walter Ellis
Nancy Lee Erickson
Douglas Ralph Ericsson
- Stephen Earl Ernst
³Geraldine Ona Esten
- ³John Randall Faith
Donald Lee Fallick
Georgia Marie Fallick
Duncan Ernst Falls
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Walter Benjamin Fisherow
Lee Fitzgerrell
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Wallace Biddle Frank, Jr.
Julia Anne Frisch
- Richard Lee Gaines
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Philip Garcia
Thomas Alan Gardiner
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Mary McCord Walthall Geller
Joseph Louis Giacchino, Jr.
- ³Michael Gordon Gibby
- ³Jeanne Ormsby Gibson
Nathaniel Gildersleeve
John Dale Gillock
James Alan Goodrich
John Ross Goodwin, II
Michael Douglas Gose
Kenneth Allen Graff
- ³Judith Gay Greene
Robert Mason Greene
- ³Roland Redmond Griffiths
Diane Joy Grossman
Margaret Ann Grunden
Donald Allen Grupe
Rolf Norman Gulbrandson
- ²Lynn Diane Gunn-Smith
- ²Elizabeth Anne Hagens
²Kathleen Alice Hallin
Jeffrey Morgan Halverson
Janet Griswold Hammond
- ³Ralph Gordon Hammond
- ³Gary L. Harkins
Clarissa L. Harmon
Jake Harper
Judith Arlene Harris
Clifford Thomas Hartman, Jr.
- ³Stephen James Hausman
Marla Jane Hebert
Mark Stephen Hill
Allan Douglas Hilton

²Linda Anne Hoag
³Patricia Ann Hokinson
³Dorothy Markiewitz Holt
 Linda Sue Holton
 William Ross Holtz
 Kristin Hoover
 Linda Mae Hoppman
³Nancy Jane Hoyt
 George Inglizian
 Gail Elizabeth Innes
³Patricia Denevan Innes
³Catherine Elizabeth Jackson
 Robert Noel Jackson
 Judith Eva Meta Jakab
 Diane Belle James
 Randy Leroy Johnsen
 Alan Curtis Johnson
²Marsha Anne Johnson
 Nancy Lee Johnson
³Steven Grant Johnson
 Mary Sandra Johnston
 Elaine Christine Jones
 Philip Carey Jones
 Philip A. Kaslo
 James Ross Keck
 Nicholas G. Kerry, Jr.
 Jini Medina Kilgore
 Susan Masako Kishi
 Paul Louis Knight
 Barbara Elizabeth Knowles
 Sally Laura Kolk
 Susan Bridgett Melly Krusoe
 Mary Louise Kurtz
 Phillip Kailai Kwong
²Joan Elizabeth Langworthy
 Nora Kathleen Larimer
 Ralph John Larson
 Ann Elizabeth La Rue
 Ronald Van Leachman
 Edson Yick Sun Lee
 Jeffrey Wilcox Le Hecka
³Craig Kirkland Lehman
 Edward Alan Lethers
 Howard Allen Liebman
 Peter Walter Lilienthal
 Don Glen Lindquist
³Leslie Harroun Litten
 Warren James Livingston, Jr.
 Diana Maria Londres
 Paul Kenneth Longmore
 Michael Stuart Luttrell
 Linda Mae Lynch
 Susan Lea McBain

Douglas James McCarty
 Kim Maureen McCauley
 Charles Campbell McClintock
³Jessica Naida Lim McConahey
 Michael William McConahey
 Marjorie Anne McCormack
 Lari Lou Lindsay McCullough
 Kathleen Meredith McGrath
²Lynne Marie McHargue
 Amy Ellen McIver
 R. Stephen McPhetridge
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 Frederic William Maerkle, III
 Karen Jeanne Malmstrom
³Martin Wallace Maner
 James Michael Marek
 John Ted Markarian
 Gordon Hugh Marsh
 Kim Sandra Marsh
 John Dunn Marshall
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 Karen Ingalls Mason
³Terrill John May
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 John Carroll Meeks
²Bruce Gordon Merritt
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 David Kane Miller
³James Knute Miller, Jr.
³Keith Robert Milliken
³Emmitt Alvin Milton
³Sandra Mitchell
 Walter Grey Moon
³Elizabeth Starr Morris
 Sean Michael Millar Mulcahy
 Carl William Mumm, Jr.
 Tommy Shigetoshi Nakamura
 James Will Navas
 Eric Jon Newman
 Stanley Curtis Newton
³Phillip Garrett Nichols
 David Ping-Sen Nip
 Alan Bert Nishimura
 Barbara Jo Nogý
 Marilyn Diane Oakes
²Setsuko Florence Okino
 Cheryl Ann Oku
 Heather-Marie Olney
 Stephen Baxter Olney
³Janet Marie Osborn
 Rhio Vincent Ossola

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- Daniel Edward O'Toole
 Kim Alling Oviatt
 Robert Allan Paige
 Christine H. Shannon Panero
 Robert Lee Pankratz
 Alan Carl Parker
 Sherry Parker
 William Stanley Paulsen
 Chris Anton Paulsrud
 Pedro Pedraza, Jr.
 Richard Rex Pemberton
 Lewis Alexander Peters, II
 Stephen M. Peters
 Sue Zee Poinsett
 Sarah Margaret Popovich
 John Richard Porter, Jr.
³Gail Susan Portnuff
³Jock Thomas Pribnow
 James T. Proctor
 Alice Susan Quady
 Peter Joseph Quare Quio, Jr.
 David Anthony Ramirez
 Joseph Kirkwood Reid, Jr.
³Michael Joseph Ricci
 Robin La Velle Richards
 Margaret H. Richardson
 Carol Rinnert
 Sarah Hope Lewis Roberts
 Sue Lenore Roenigk
 Eugene Lewis Rohrer
 Michael Porter Rose
 Patricia Elizabeth Roth
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 Raymond Matson Ruddell
 Leigh Dawn Ruhlen
 Robert Merrick Russell
 Bradford Ralph Santos
 Terry Ronald Scharf
 Sara Jane Schildmeyer
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 Charles A. Schneider
 Charles Edward Schroeter, III
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 Norris Robert Scott
 Tina Anderson Scott
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 Peter Duncan Shapiro
 Mary Jane Sheffet
 Lawrence Malcolm Sheingold
³Christopher Hale Shelton
 Brenda Yvonne Shockley
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 J. Randall Smith
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 Alan Kay Takeda
³Louise Ethel Tallman
 Claire Marie Targoff
 Carolyn Edith Taylor
 Ray Robinson Taylor, III
 Harold Leroy Teel, Jr.
 Gary L. Thomas
²Mary Janet Thomas
³Richard Owen Thomas
 William Richard Thorpe, II
³William Nicholas Tingle
 Peter Stuart Tingom
³Rosanne Virginia Tobin
 Jesus Salvador Trevino
 William McDonald Tully
 Naneene Sue Van Gelder
 Patricia Collins Varney
 John Odell Viebrock
 Kenneth Jan Visser
³Sarah Jean Walker
 Samuel M. S. Wang
 Cynthia Patch Wasson
 Douglas Nelsen Weismann
 D. Alison Wells
 Kathleen Balmer Wells
 Cathy Laraine Werner
³Ira Jay West
 Jo Ann Westergart
³Helen Ann Wharton
 John Wallis Whitney
 Martha Ellen Whittaker
 Ann Gilbert Williams
 Charlotte Ann Williams
 Jane Caroline Williams
 Nancy Ellen Wilson
³Carolyn Wing
 Guy Rodney Wirsig
 Robert Cressey Wright

HONORS AWARDED IN 1967-68

Graduation Honors of *Suma Cum Laude*, *Magna Cum Laude*, and *Cum Laude* are indicated in the list of Bachelor of Arts.

During the year 1967-68 the following students were elected to the Delta Chapter of Phi Beta Kappa:

John Wesley Barton
 Wilbert E. Bennett
 Todd Alan Bergesen
 Warren Niles Brakensiek
 Kenneth David Buckwalter
 Donald Vinson Burk
 Robert Sing Yick Chang
 Susan Elizabeth Colton
 Maria Anita Ramirez Contreras
 Joseph Craig Eakin, Jr.
 James Walter Ellis
 John Randall Faith
 Jeanne Ormsby Gibson
 Lynn Diane Gunn-Smith
 Elizabeth Anne Hagens
 Kathleen Alice Hallin
 Gary L. Harkins
 Stephen James Hausman
 Linda Anne Hoag
 Patricia Ann Hokinson
 Dorothy Markiewitz Holt
 Catherine Elizabeth Jackson

Marsha Anne Johnson
 Joan Elizabeth Langworthy
 Leslie Harroun Litten
 Lynne Marie McHargue
 Martin Wallace Maner
 Bruce Gordon Merritt
 Emmitt Alvin Milton
 Sandra Mitchell
 Elizabeth Starr Morris
 Setsuko Florence Okino
 Janet Marie Osborn
 Gail Susan Portnuff
 Jock Thomas Pribnow
 Christopher Hale Shelton
 Gregory Marshall Smith
 Richard Allan Stillinger
 Mary Janet Thomas
 Richard Owen Thomas
 William Nicholas Tingle
 Rosanne Virginia Tobin
 Sarah Jean Walker
 Helen Ann Wharton

The Occidental College Honors Program in 1967-68 provided for two types of honors at graduation: (1) College Honors, an interdisciplinary program, consisting of an Honors Seminar, independent research projects, and a thesis, and (2) Departmental Honors.

Graduating with College Honors were:

Glenn H. Angelo
 Todd Alan Bergesen
 Martha Jane Carriger

Laurence William Vai
 De Boer
 John Randall Faith

Linda Anne Hoag
 James William Rough

Graduating with Departmental Honors were:

In Biology:

Susan Melinda Budd
 Robert Mason Greene
 Clifford Thomas
 Hartman, Jr.
 Dorothy Markiewitz Holt
 Ralph John Larson
 Janet Marie Osborn

In Chemistry:

Michael Gordon Gibby
 Jock Thomas Pribnow
 Barry Duane Sears

In Economics:

Sheila Marie Boylston
 Stephen Forbes Cooper
 Noel Iiams Daniels
 Emmitt Alvin Milton

*In English and**Comparative Literature:*

Todd Alan Bergesen
 Rosanne Virginia Tobin

In History:

Patricia Denevan Innes
 Bruce Gordon Merritt
 Ira Jay West

In Psychology:

Jimmy Don Conner
 Marc Scott Daniels
 Nancy Lee Erickson
 Geraldine Ona Esten
 Walter Benjamin
 Fisherow
 Judith Arlene Harris

HONORS

Roland Redmond Griffiths
Barbara Elizabeth
Knowles
Joan Elizabeth
Langworthy
Charles Campbell
McClintock

Nancy Dahlen Smith
Mary Janet Thomas

*In Sociology and
Anthropology:*
Andrew William Deems

Elizabeth Anne Hagens
Setsuko Florence Okino

In Speech and Drama:
Christopher Hale Shelton

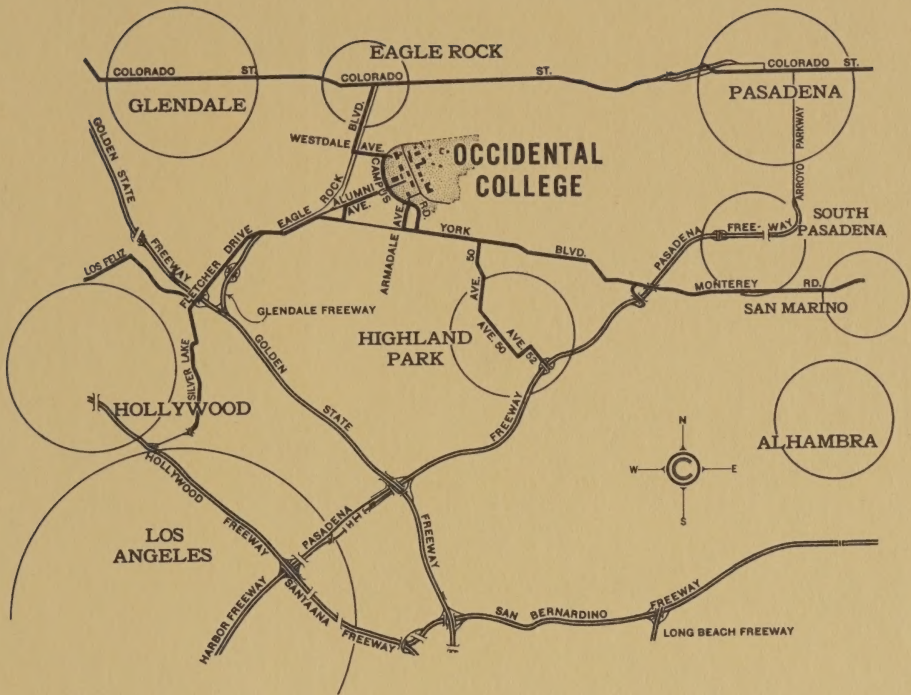
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HOW TO GET TO OCCIDENTAL COLLEGE

By Automobile. From Los Angeles, take the Pasadena Freeway north to the Bakersfield turnoff, then take the Golden State Freeway north to the Verdugo offramp (Glendale Freeway). Follow the Glendale Freeway to its terminus at Fletcher Drive. Continue on Fletcher Drive two blocks to its merger with Eagle Rock Boulevard. Take Eagle Rock Boulevard north to the intersection of York Boulevard. Turn right on York Boulevard, then turn left at Avenue 45 and travel one block to Alumni Avenue. Turn right. Alumni Avenue terminates at the main gate of the campus.

By Bus. Metropolitan Transit Authority motor coaches. Take either the York Boulevard "6" coach or the Eagle Rock "7" coach northbound, on Broadway in downtown Los Angeles. Ride to Armadale Avenue on the "6" line, or to Westdale Avenue on the "7" line.

From Glendale, eastbound coaches, line "31," connect with "7" coach in Eagle Rock, as do westbound coaches of the same line from Pasadena.

UNIVERSITY OF ILLINOIS-URBANA



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